

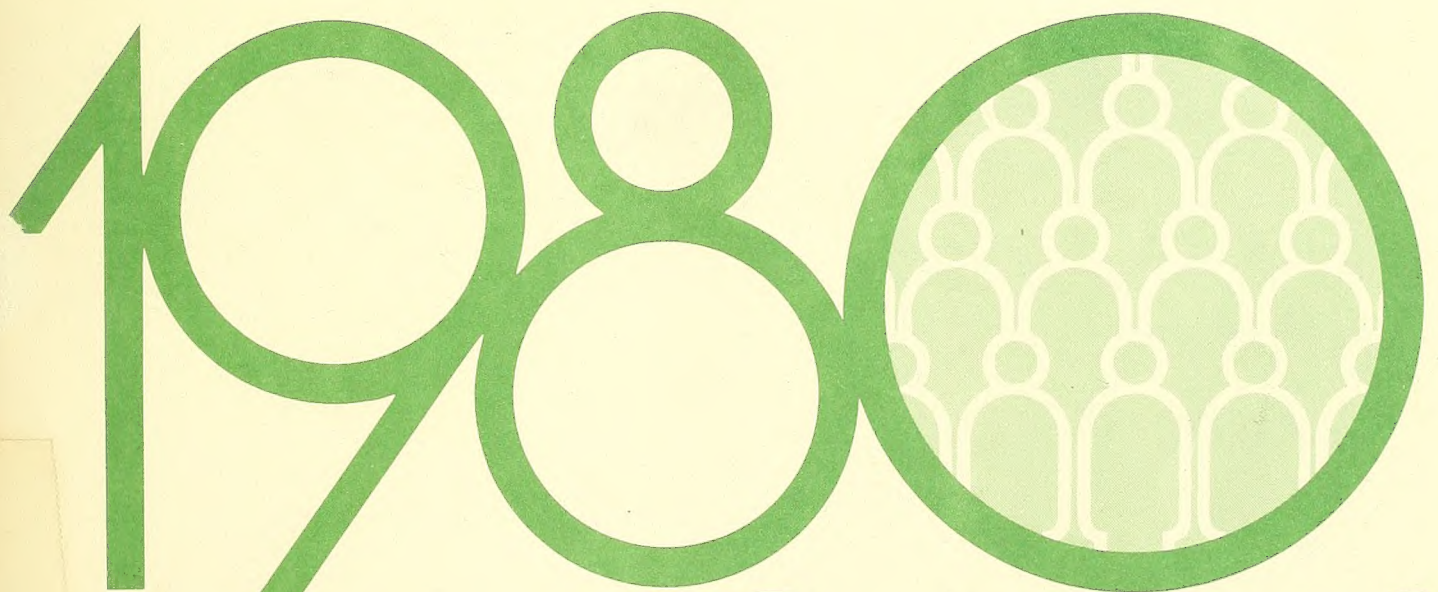
LIBRARY
BUREAU OF THE CENSUS

BUREAU OF THE CENSUS
LIBRARY

S111907

Occupation by Industry

1980



Census of Population

Bureau of the Census
Library

U.S. Department of Commerce
BUREAU OF THE CENSUS

1980

**Census of
Population**

VOLUME 2
SUBJECT REPORTS

Occupation by Industry

PC80-2-7C

Census
HA
201
1980
A566x
V. 2
P. 7C
C. 3

Issued May 1984



U.S. Department of Commerce
Malcolm Baldrige, Secretary
Clarence J. Brown, Deputy Secretary
Sidney Jones, Under Secretary for
Economic Affairs

BUREAU OF THE CENSUS
John G. Keane, Director



BUREAU OF THE CENSUS

John G. Keane, Director

C. L. Kincannon, Deputy Director

POPULATION DIVISION

Roger A. Herriot, Chief

Acknowledgments

Many persons participated in the diverse activities of the 1980 census. These acknowledgments generally reflect staff during the post-census data publication process. The Bureau was guided by then Director, **Bruce Chapman**, and Deputy Director, **C. L. Kincannon**. Primary direction of the data publication program was performed by **William P. Butz**, Associate Director for Demographic Fields, assisted by **Peter A. Bounpane**, Assistant Director for Demographic Censuses, in conjunction with **Barbara A. Bailer**, Associate Director for Statistical Standards and Methodology, **Howard N. Hamilton**, Acting Associate Director for Information Technology, **James D. Lincoln**, then Associate Director for Administration, and **Stanley D. Moore**, Associate Director for Field Operations. The Director's staff was assisted by **Sherry L. Courtland**. Direction of the census enumeration and early processing activities was provided by **Vincent P. Barabba**, former Director; **Daniel B. Levine**, former Deputy Director; and **George E. Hall**, former Associate Director.

Responsibility for the overall planning, coordinating, processing, and publication of the 1980 census was in the Decennial Census Division under the direction of **Stanley D. Matchett**, Chief, assisted by **Rachel F. Brown** and **Roger O. Lepage**, Assistant Division Chiefs. The following Branch Chiefs were responsible for support services; **Donald R. Dalzell**, **Stephen E. Goldman**, **Judith A. McKay**, **Dennis W. Stoudt**, and **Richard R. Warren**.

This report was planned and its content developed in the Population Division by **Paula L. Vines**, **John A. Priebe**, and **Thomas S. Scopp** of the Labor Force Statistics Branch. The work was under the general supervision of **Roger A. Herriot**, Chief, **Paula J. Schneider**, Staff Assistant for Census Programs, and **Gordon W. Green, Jr.**, Assistant Division Chief.

A number of advisory groups and individuals representing and affiliated with universities, research organizations, professional associations, government agencies, and other groups

assisted in determining the content of PC80-2 reports.

Administration support was provided by the Administrative Services Division, **Robert L. Kirkland**, Chief, and **William C. Fanning**, Assistant Chief.

Computer processing was performed in the Computer Operations Division, **C. Thomas DiNenna**, Chief, **James E. Steed**, **George M. Bowden**, and **Joseph J. Sferrella**, Assistant Chiefs.

Questionnaire processing procedures were developed in the Decennial Processing Staff, **James S. Werking**, then Chief, under the direction of **Harry O'Haver**, then Assistant Chief. The clerical coding and microfilming of the sample questionnaires were performed at three decennial processing locations as follows: Data Preparation Division, **Don L. Adams**, Chief; Jeffersonville Processing Office, **Robert L. Kirkland**, then Processing Manager; New Orleans Processing Office, **Robert L. Allen**, Chief; and Laguna Niguel Processing Office, **Robert N. Scheller**, Chief.

User services were provided by the Data User Services Division under the supervision of **Michael G. Garland**, Chief, **Marshall L. Turner, Jr.**, and **Paul T. Zeisset**, Assistant Chiefs.

Data collection activities were supervised in the Field Division by **Lawrence T. Love**, Chief, under the direction of **Richard Blass**, **Charles Hancock**, and **George T. Reiner**, Assistant Chiefs, with the assistance of the directors and assistant directors of the Bureau's regional offices.

Geographic programs and plans were developed in the Geography Division under the direction of **Joseph J. Knott**, **Robert W. Marx**, and **Silla G. Tomasi**, Assistant Chiefs, and **Donald I. Hirschfeld**.

Publications editing, design, composition, and printing procurement were performed by the staff of the Publications Services Division, **Raymond J. Koski**, Chief; **Milton S. Andersen**, **Arlene C. Duckett**, and **Gerald A. Mann**, Branch Chiefs.

The Statistical Methods Division was largely responsible for weighting sample data and producing variance estimates. This work was supervised by **Charles D. Jones**, Chief; **Susan M. Miskura** and **Robert T. O'Reagan**, Assistant Chiefs. Important contributions were made by **David H. Diskin**, **Milton C. Fan**, **Thomas W. Harahush**, **Robert S. Jewett**, **J. Kim**, **Teresa A. Passalacqua**, **Charles E. Talbert**, **John H. Thompson**, and **Henry F. Woltman**.

The system design, technical specifications, assembly, and installation of the FOSDIC and Automated Camera Technology System were the responsibility of the Technical Services Division, **C. Thomas DiNenna**, Acting Chief, and **Robert J. Varson**, Branch Chief.

Many other persons participated in the various activities of the 1980 census. For a list of key personnel, refer to the *History of the 1980 Census of Population and Housing*, (PHC80-R2).

Library of Congress Cataloging in Publication Data

1980 census of population. Volume 2, Subject reports.

PC80-2-

Issued April 1984—

1. United States—Census, 20th, 1980. 2. United States—Population—Statistics. I. United States. Bureau of the Census. II. Title: Subject Reports.

HA215.A132 312'.0973 81-607939 AACR2

For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by draft on a U.S. bank.

APPENDIXES

A.	Definitions and Explanations of Subject Characteristics	A-1
B.	General Enumeration and Processing Procedures	B-1
C.	Accuracy of the Data	C-1
D.	Facsimiles of Respondent Instructions and Questionnaire Pages	D-1
E.	Publication and Computer Tape Program ..	E-1

Introduction

GENERAL	III
CONTENTS OF THE REPORT ...	III
SYMBOLS AND GEOGRAPHIC ABBREVIATIONS	III
SUPPRESSION OF DATA FOR CONFIDENTIALITY	III

GENERAL

This report is part of the *Subject Reports* series and presents sample data from the 1980 Census of Population on detailed occupation cross-classified by detailed industry for employed persons. Less detailed cross-classifications of occupation by industry show data for employed persons by race and Spanish origin, median age, educational attainment, percent self-employed, and mean earnings. This report also shows the last industry of experienced unemployed persons by their last occupation.

The abbreviated identification for this report is PC80-2 (i.e., Population Census, 1980-Volume 2) followed by a number and letter representing the specific report.

A large portion of the information compiled from the 1980 Census of Population appears in Volume 1, *Characteristics of the Population*, which focuses on data for States, standard metropolitan statistical areas, urbanized areas, counties, places, American Indian Reservations, and other geographic areas. For a more complete description of the 1980 census data products, see appendix E.

Legal provision for this census, which was conducted as of April 1, 1980, was made in the Act of Congress of August 31, 1954 (amended August 1957, December 1975, and October 1976), which codified Title 13, United States Code.

The content and procedures of the 1980 census were determined after evalu-

ation of the results of the 1970 census, consultation with a wide variety of users of census data, and extensive field testing. A number of changes were introduced in 1980 to improve the usefulness of the census results. The changes do not, however, affect to any appreciable extent the comparability between the 1980 census data and the 1970 census data for most characteristics. Further information on comparability for specific subjects appears in appendix A.

More detailed information on the technical and procedural matters covered in the text of this report can be obtained by writing to the Director, Bureau of the Census, Washington, D.C. 20233. Such information will also appear in other publications of the 1980 census.

CONTENTS OF THE REPORT

This report contains text (this introduction and five appendixes), a table of contents, and detailed tables.

Each detailed table is identified by a table number and title. The "stubhead" at the left under the title defines the types of geographic areas for which data are shown in the particular table and is considered part of the table title.

Appendix A provides definitions and explanations for the subjects covered in this report. Appendix B explains the residence rules used in counting the population and describes the data collection and processing procedures. Appendix C presents information on the sources of error in the data and editing procedures. Appendix D contains facsimiles of the respondent instructions and 1980 census questionnaire pages. Appendix E summarizes the data dissemination program of the 1980 census.

SYMBOLS AND GEOGRAPHIC ABBREVIATIONS

The following symbols and geographic abbreviations may appear in the tables:

- A dash "--" represents zero or a percent which rounds to less than 0.1.
- Three dots "... " mean not applicable, or that the data are being withheld to avoid disclosure of information for individuals. (For further information on disclosure, see the section below on "Suppression of Data for Confidentiality.")
- (NA) means not available.
- SCSA is standard consolidated statistical area.
- SMSA is standard metropolitan statistical area.

SUPPRESSION OF DATA FOR CONFIDENTIALITY

To maintain the confidentiality promised respondents and required by law, the Bureau of the Census takes precautions that its published data do not disclose information about specific individuals and housing units. To accomplish this the Census Bureau suppresses data for characteristics which are based on a small number of persons and/or housing units in the geographic area. Under certain conditions, both primary and complementary suppression, as defined below, may take place.

The general rules of primary suppression of sample data are as follows: estimates of total population by race and Spanish origin are never suppressed; other characteristics for persons are shown only if there are 30 or more persons in the geographic area; estimates of total housing units, vacant housing units, year-round

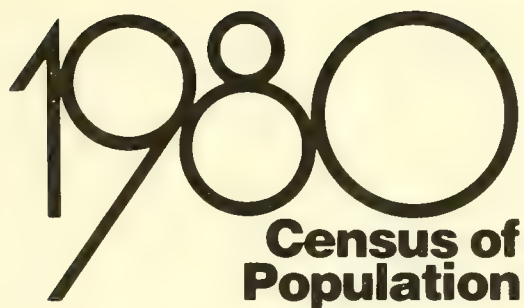
units and occupied housing units are never suppressed; characteristics of year-round housing units which are not classified by occupancy status are shown only when there are 10 or more year-round housing units in the geographic area; characteristics of families, households, or occupied housing units are shown only if there are at least 10 occupied housing units within the geographic area; and distributions of data for owners or renters

are shown only where the number of owners is at least 10 and the number of renters is also at least 10. These primary suppression criteria are applied independently of one another. The comparable figures for complete-count (100-percent) data are 15 or more persons and 5 or more housing units of the specified type.

Population and occupied housing unit characteristics cross-classified by race or

Spanish origin (of the householder in the case of occupied housing units) are subject to an additional level of examination. This level requires the 30-person or 10-housing unit criterion be applied individually to each race or Spanish origin category.

Finally, complementary suppression is applied to prevent the derivation of primary suppressed data by subtraction.



Occupation by Industry

PC80-2-7C

Contents

TABLES		Page	TABLES		Page
1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980		1	3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980		271
2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980		181	4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980		295

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Total, all industries																
	Race				Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Total		White		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
	Both sexes	Male	Female	Male													Female
Employed persons 16 years and over	97 639 355	56 004 690	41 634 665	48 843 987	35 183 388	4 674 871	4 659 177	3 288 208	2 168 649	36.3	34.6	74.1	78.2	20.6	15.8	9.2	3.7
Managerial and professional specialty occupations	22 151 648	13 196 805	8 954 843	12 191 039	7 876 425	546 271	770 809	395 469	271 456	39.7	35.6	94.0	94.5	57.9	50.6	10.3	4.8
Executive, administrative, and managerial occupations	10 133 551	7 063 304	3 070 247	6 590 110	2 746 156	268 324	219 108	217 957	105 788	41.1	37.3	91.3	90.8	44.2	25.7	8.4	5.9
Officials and administrators, public administration	361 549	220 390	111 159	224 853	95 080	17 294	12 841	8 302	3 696	45.4	41.7	90.3	94.0	46.5	28.1	—	—
Financial managers	403 507	277 432	126 075	339 737	117 132	6 683	5 815	7 386	3 742	37.5	34.3	97.9	94.7	59.8	18.7	0.8	0.5
Managers, marketing, advertising, and public relations	674 364	557 041	117 323	539 737	121 968	8 780	4 043	11 018	3 315	40.3	37.5	94.9	92.0	43.6	25.9	0.4	0.5
Administrators, education and related fields	382 589	237 685	144 904	213 265	121 988	19 760	18 824	4 528	4 131	40.3	37.5	97.5	95.7	87.4	65.0	0.6	2.9
Managers, medicine and health	108 477	53 529	54 948	48 115	47 768	3 819	4 484	1 420	1 634	40.8	41.5	95.8	93.6	65.1	38.3	3.0	2.6
Other specified managers	549 555	361 901	187 654	331 115	169 707	20 507	12 521	15 174	6 635	43.0	41.2	89.0	86.0	39.5	19.9	10.6	6.0
Managers and administrators, n.e.c.	5 097 215	3 739 810	1 307 425	3 508 674	1 236 728	119 524	76 854	102 358	40 058	41.7	38.5	88.6	87.2	36.2	20.0	10.7	9.2
Salaries	4 535 735	3 329 485	1 204 250	3 128 541	1 098 636	107 573	72 283	102 358	40 138	41.4	37.5	90.0	88.3	34.2	20.6	—	—
Self-employed	561 480	410 325	151 155	380 133	138 092	11 951	4 571	15 680	5 920	45.0	45.4	77.3	77.9	20.0	15.0	97.7	82.8
Management related occupations	2 556 295	1 585 516	970 779	1 460 693	847 092	71 957	82 726	50 569	36 180	38.5	34.0	94.8	94.8	54.3	28.9	8.5	3.3
Accountants and auditors	993 327	616 955	376 372	569 182	325 750	22 422	29 568	17 999	12 946	35.1	32.2	98.7	96.4	71.4	33.3	12.0	3.2
Personnel, training, and labor relations specialists	410 366	218 196	192 170	291 259	139 389	19 280	24 979	10 415	9 700	39.5	34.8	90.6	93.5	42.5	30.9	2.3	1.3
Buyers and purchasing agents	369 126	236 116	133 010	224 260	123 030	6 768	6 844	6 481	3 641	40.0	33.9	90.4	92.1	30.6	20.7	6.0	2.3
Inspectors and compliance officers	200 876	172 340	28 536	155 267	22 426	11 373	4 871	8 711	3 055	44.1	34.4	88.0	88.2	27.4	29.9	0.8	0.3
Other management related occupations	582 600	341 909	240 691	320 725	216 497	12 114	16 464	8 619	8 452	39.5	34.8	97.0	95.6	60.7	25.0	11.6	5.8
Professional specialty occupations	12 018 097	6 133 501	5 884 596	5 600 929	5 130 269	277 947	551 701	177 512	165 668	38.1	34.8	97.2	96.5	73.7	63.5	12.4	4.3
Engineers, architects, and surveyors	1 516 917	1 444 035	72 862	1 333 573	64 149	33 868	4 614	34 155	2 449	39.5	31.2	97.9	96.0	62.8	48.4	4.1	3.4
Architects	105 079	96 462	8 117	88 949	7 856	2 607	280	3 835	339	37.6	31.7	97.0	98.1	75.6	74.4	30.0	20.7
Engineers	382 095	318 937	63 158	217 368	55 283	30 634	4 290	29 369	2 061	39.7	31.1	98.1	95.8	62.8	45.1	2.0	1.0
Civil engineers	200 471	194 673	3 198	175 803	4 991	4 586	338	5 302	159	39.3	29.6	97.6	96.6	67.6	56.1	2.7	1.4
Electrical and electronic engineers	319 754	303 798	15 956	279 290	13 610	7 954	1 429	7 109	652	38.5	32.0	96.8	96.5	62.8	39.8	1.3	0.7
Industrial engineers	190 952	172 234	18 178	162 969	16 962	4 362	1 033	3 431	622	40.4	32.3	97.5	93.4	46.9	29.1	0.5	0.2
Mechanical engineers	194 994	191 021	3 973	177 965	3 483	4 268	299	3 324	73	40.3	29.2	97.6	96.9	58.2	55.4	1.7	1.2
Other engineers	475 924	457 211	18 713	421 321	16 237	9 464	1 191	10 203	555	40.3	30.0	98.4	97.2	68.6	59.9	2.9	1.9
Surveyors and mapping scientists	29 743	28 656	1 087	27 256	1 010	627	44	951	49	33.7	28.8	90.3	92.0	18.6	34.5	14.3	4.9
Computer systems analysts and scientists	200 684	155 824	44 860	143 147	39 134	5 990	3 431	3 551	1 134	35.0	31.8	98.9	98.0	58.9	53.7	1.9	1.5
Operations and systems researchers and analysts	79 920	57 844	22 076	53 382	18 930	2 416	2 371	1 320	519	38.8	33.3	98.0	96.6	55.9	46.0	0.9	0.7
Mathematical scientists	45 891	28 089	17 802	25 614	15 202	1 044	1 781	576	463	36.0	32.9	99.1	97.8	80.3	49.5	1.8	0.6
Natural scientists	307 295	246 934	60 361	226 582	51 439	7 755	3 751	1 843	1 463	36.7	31.6	97.9	96.7	80.6	70.2	3.7	2.6
Chemists, except biochemists	100 458	80 513	19 945	71 026	15 849	3 548	1 417	1 700	777	37.8	32.2	98.7	97.0	79.7	74.1	0.8	1.4
Other natural scientists	206 837	166 421	40 416	155 556	35 590	4 207	2 334	3 375	1 066	36.1	31.4	97.5	96.5	81.0	68.2	5.1	3.2
Health diagnosing occupations	643 716	568 601	75 115	514 721	57 747	13 884	4 014	18 841	3 211	42.8	34.4	99.5	98.6	97.6	81.7	40.6	20.0
Health assessment and treating occupations	1 695 436	236 784	1 458 452	208 337	179 739	16 927	114 754	8 618	32 189	33.9	34.8	97.0	97.0	65.9	37.5	7.7	1.7
Registered nurses	1 266 801	51 933	1 214 868	43 687	1 071 614	5 337	89 508	2 568	24 575	32.5	35.8	97.1	98.0	47.8	33.3	2.9	1.4
Other health assessment and treating occupations	428 635	184 851	243 784	164 850	208 125	11 590	25 246	6 050	7 614	34.4	31.7	97.0	92.2	70.9	58.8	9.0	3.1
Teachers, except postsecondary	3 658 074	1 071 100	2 586 974	970 398	2 246 965	74 409	279 767	31 287	72 065	36.3	35.6	97.7	97.2	85.3	80.6	1.9	2.9
Social scientists and urban planners	912 497	133 451	79 066	124 032	70 391	5 330	6 378	3 409	2 009	36.4	33.5	98.9	97.4	84.0	74.6	7.4	9.9
Social and recreation workers	47 772	166 172	370 660	129 293	236 987	27 334	60 687	1 862	15 693	33.7	34.2	95.1	93.9	67.5	54.9	7.4	11.3
Lawyers and judges	528 806	459 494	70 312	436 660	65 796	0 206	4 633	7 986	1 991	38.7	32.1	99.4	98.4	96.3	82.6	42.4	14.9
Writers, artists, entertainers, and athletes	308 706	759 891	548 831	357 927	512 134	35 097	20 345	30 739	16 715	34.3	33.1	96.8	92.4	42.2	43.1	21.6	19.4
Other professional specialty occupations	1 347 353	812 332	535 021	737 365	471 636	43 687	44 975	20 763	15 367	41.1	37.3	96.8	96.7	81.3	72.9	6.2	1.0
Technical, sales, and administrative support occupations	529 593 506	10 622 048	18 971 458	9 503 823	16 646 739	712 342	1 639 737	490 111	844 445	35.8	33.5	85.5	86.0	22.6	8.6	8.2	2.5
Technicians and related support occupations	2 981 951	1 679 062	1 302 889	1 501 366	1 089 273	92 384	155 450	66 361	45 599	33.2	32.2	93.8	92.1	21.8	11.1	1.9	1.1
Health technologists and technicians	966 469	1 581 117	808 352	1 26 480	663 424	19 609	113 381	9 452	26 676	31.6	33.1	93.5	91.8	34.5	16.1	3.0	1.1
Licensed practical nurses	424 960	14 281	410 679	10 670	339 167	2 801	73 499	7 329	13 981	33.7	35.7	89.3	89.3	10.5	3.0	2.5	1.8
Other health technologists and technicians	541 509	143 836	397 673	115 810	339 257	16 808	39 882	8 726	12 695	31.4	31.1	93.9	94.3	36.9	29.7	1.0	0.3
Engineering and science technicians	1 104 114	896 033	208 081	810 741	179 011	43 639	17 804	37 700	9 744	33.5	30.8	92.6	89.2	17.4	20.4	1.8	0.9
Electrical and electronic technicians	260 959	231 272	29 687	206 604	23 843	12 222	3 588	9 591	2 036	33.5	32.6	94.4	84.9	10.4	9.9	0.9	0.4
Industrial and mechanical engineering technicians	25 425	22 339	3 066	20 693	2 759	993	218	706	149	38.8	34.4	86.3	81.5	26.1	15.3	2.1	0.9
Drafting and surveying technicians	368 268	312 094	56 174	282 957	50 377	13 283	2 876	15 704	2 534	32.1	29.7	93.1	92.4	15.1	21.0	2.7	2.2
Other engineering and science technicians	449 462	330 308	119 154	300 487	102 332	17 141	11 122	11 699	5 025	34.6	30.9	99.1	88.4	24.0	22.9	1.4	0.4
Technicians, except health, engineering, and science	911 368	624 912	286 456	564 145	246 838	29 136	24 265	19 209	9 179	33.4	30.7	95.5	94.9	41.5	38.8	2.3	1.6
Airplane pilots and navigators	74 129	73 113	1 016	71 603	69 631	621	26	1 140	78	39.7	33.0	97.3	94.0	44.9	36.6	2.7	5.6
Air traffic controllers and broadcast equipment operators	109 949	73 570	36 379	67 436	31 824	4 124	3 243	1 380	353	31.0	29.7	91.0	89.3	16.0	8.7	2.9	0.2
Computer programmers	313 179	215 825	97 354	194 816	83 075	9 795	7 550	5 960	2 633	31.4	29.7	98.4	97.4	48.9	46.1	1.8	1.5
Other technicians, except health, engineering, and science	414 111	262 404	151 707	230 290	130 976	14 596	13 246	9 642	5 088	33.4	31.3	94.0	94.7	41.6	41.3	4.1	3.0

¹Persons of Spanish origin may be of any race

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Total, all industries											
	Race				Black		Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Male	Female	Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con												
Sales occupations	9 760 157	5 088 664	4 671 493	4 766 713	184 593	283 771	189 618	203 385	37 9	33 0	84 2	73 6
Supervisors and proprietors, sales occupations	1 540 786	1 111 657	429 129	1 040 699	35 529	17 061	43 511	15 025	39 8	38 7	82 9	80 7
Salaries	1 096 130	791 418	304 712	742 008	26 147	13 506	31 419	10 788	36 7	34 0	86 7	82 4
Self-employed	444 656	320 239	124 417	298 491	3 862	3 555	12 392	4 237	46 8	46 5	73 6	76 5
Sales representatives, finance and business services	1 802 715	1 169 255	333 460	1 112 001	34 863	24 323	37 395	17 397	41 8	38 0	93 6	92 8
Sales representatives, commodities, except retail	1 268 214	1 089 177	179 037	1 048 657	28 844	7 756	28 639	7 439	34 8	32 8	74 7	84 9
Sales workers, retail and personal services	5 122 504	1 706 315	1 063 189	1 553 718	90 946	234 111	89 731	163 194	31 6	30 7	74 7	68 6
Cashiers	1 716 318	288 252	1 428 066	241 245	67 623	131 618	66 128	82 900	25	25	73 3	64 9
Other sales occupations, retail and personal services	3 406 186	1 418 063	1 988 123	1 312 473	23 323	102 493	23 323	102 493	34 5	34 5	73 3	64 9
Sales related occupations	25 938	12 260	13 678	11 638	435 365	1 200 516	234 132	595 461	34 9	33 8	83 5	89 8
Administrative support occupations, including clerical	16 851 398	3 854 322	12 997 076	3 235 744	435 365	1 200 516	234 132	595 461	34 9	33 8	83 5	89 8
Supervisors, administrative support occupations	1 056 710	559 042	497 668	494 497	46 208	51 481	25 008	20 578	41 3	38 4	90 1	91 9
Computer equipment operators	408 475	167 320	241 155	138 626	19 100	32 679	9 402	11 396	30 4	30 1	94 9	92 1
Secretaries, stenographers, and typists	4 656 955	777 017	4 579 938	64 191	4 004	325 679	5 006	186 010	34 6	33 6	87 9	93 4
Secretaries	3 870 582	477 334	3 823 248	41 197	3 979	214 543	4 227	142 531	37 0	34 0	87 2	93 9
Stenographers and typists	786 373	29 683	756 690	22 994	4 425	111 136	2 579	43 479	32 3	31 3	89 0	90 6
Receptionists	516 498	21 698	494 800	17 331	2 944	37 819	1 777	27 988	26 7	31 4	84 8	86 9
Other information clerks	377 680	108 919	268 761	91 823	10 966	27 810	6 627	13 378	32 8	32 2	88 0	87 2
File clerks	277 592	56 242	221 350	44 448	8 657	37 927	3 561	14 917	30 2	26 8	81 9	75 9
Other records processing occupations, except financial	687 515	163 493	524 022	136 276	18 050	59 039	11 648	25 741	31 3	32 6	82 0	88 2
Bookkeepers, accounting, and auditing clerks	1 827 890	187 657	1 640 233	164 384	12 228	66 061	10 793	52 075	37 2	38 1	91 1	90 8
Payroll and timekeeping clerks	139 292	26 670	132 622	23 212	2 260	10 670	1 310	5 271	35 1	36 1	88 0	90 7
Other financial records processing occupations	266 902	46 138	218 764	41 647	3 803	19 508	2 875	10 105	32 0	32 0	88 2	89 1
Telephone operators	292 165	28 727	263 438	20 530	3 765	38 033	2 937	12 189	27 7	27 7	87 5	82 7
Mail and message distributing occupations	773 626	544 330	229 096	431 541	89 018	51 733	31 344	9 136	40 9	34 6	82 3	81 9
Production coordinators and expeditors	360 771	190 990	169 781	297 022	14 146	17 130	9 028	6 035	37 2	33 4	84 6	84 3
Traffic, shipping, and receiving clerks	481 938	368 404	113 534	297 204	50 706	12 150	34 466	7 435	37 2	33 4	70 3	73 9
Stock and inventory clerks	570 906	372 361	198 545	397 167	45 723	23 021	24 016	5 838	31 2	33 9	71 7	76 7
Other material recording, scheduling, and distributing clerks	248 621	137 001	89 620	137 703	15 968	11 376	7 835	15 844	35 1	31 7	83 2	93 2
Adapters and investigators	315 666	198 432	321 234	174 638	13 401	47 185	2 448	21 516	30 8	30 4	88 0	90 7
Data-entry keyers	378 084	28 617	349 477	24 628	4 432	37 126	2 448	21 516	30 8	30 4	88 0	90 7
Other administrative support occupations	2 995 862	553 164	2 440 718	436 136	65 566	283 592	36 052	138 583	33 0	33 5	85 4	87 8
Service occupations	12 629 425	5 177 580	7 451 845	4 040 702	792 530	1 363 664	438 213	450 728	32 6	35 0	59 4	58 4
Private household occupations	589 352	26 466	562 886	15 451	8 693	233 024	2 479	52 922	42 9	49 2	6 7	5 5
Protective service occupations	1 475 315	1 306 454	168 861	1 212 122	145 656	30 648	56 771	7 450	37 2	33 8	81 8	75 5
Guards	612 560	494 779	117 781	397 171	78 769	20 484	26 112	5 145	43 4	34 6	66 1	69 8
Other protective service occupations	862 755	811 675	51 080	723 951	66 887	10 164	30 659	2 305	33 0	33 0	91 4	88 7
Service occupations, except protective and household	10 564 758	3 844 660	6 720 098	2 904 129	638 181	1 099 992	378 963	390 356	30 3	34 2	51 9	59 8
Food preparation and service occupation	4 384 936	1 479 935	2 905 001	1 518 867	172 287	297 237	165 274	133 470	25	30 7	48 4	54 6
Health service occupations	1 726 875	205 246	1 521 629	137 363	56 321	347 426	14 189	77 240	34 1	34 1	75 2	68 8
Cleaning and building service occupations, except household	2 745 403	1 782 033	963 370	1 311 678	359 077	293 078	167 569	92 295	39 1	43 3	48 7	40 4
Personal service occupations	1 707 544	377 446	1 330 098	303 201	50 496	162 251	31 931	87 351	35 2	34 5	67 6	74 9
Farming, forestry, and fishing occupations	2 811 258	2 406 989	404 269	2 089 563	156 822	25 368	214 662	39 793	39 4	37 8	54 7	61 0
Precision production, craft, and repair occupations	12 584 125	11 616 225	977 950	3 417 088	726 192	108 755	679 690	85 145	36 7	37 4	69 6	65 1
Mechanics and repairers	3 798 598	3 672 592	126 003	3 032 274	225 483	16 223	199 190	7 578	35 4	32 3	69 9	73 8
Supervisors, mechanics and repairers	158 413	153 822	4 598	145 304	5 007	5 380	5 359	193	42 5	37 0	78 0	84 9
Automobile mechanics, including body	1 101 984	1 088 782	13 202	947 003	72 556	1 747	73 352	974	32 7	31 5	62 5	66 6
Industrial machinery repairers	467 613	453 681	13 932	411 236	29 513	1 863	20 297	725	37 8	34 2	64 8	60 6
Electronic repairers, communications and industrial	158 775	150 932	7 843	137 141	7 469	931	7 705	483	37 0	34 8	82 5	75 3
Refrigeration, air conditioning, and refrigeration mechanics	143 626	142 242	1 384	130 850	4 689	222	7 480	99	35 3	32 9	74 2	72 0
Other mechanics and repairers	1 768 187	1 683 133	85 054	1 520 740	104 155	11 080	84 897	5 102	36 2	33 2	73 8	76 4
Construction trades	4 247 010	4 159 747	87 263	3 740 320	262 002	10 092	246 571	5 203	35 4	32 8	67 2	68 3
Supervisors, construction occupations	741 546	729 109	12 437	682 755	27 597	1 058	29 588	551	41 3	39 6	73 1	80 2
Carpenters	1 011 536	1 084 400	17 136	990 230	26 944	2 076	62 294	1 040	33 7	32 9	65 0	67 4
Electricians	589 071	577 165	11 906	534 405	26 684	1 641	22 216	746	35 7	34 0	80 6	80 6
Painters, construction and maintenance	362 982	342 569	20 413	290 508	31 657	2 047	24 528	1 406	34 8	32 4	54 4	63 6
Plumbers, pipefitters, and steamfitters	461 198	455 518	5 680	411 158	29 309	784	23 669	423	36 6	32 0	69 5	70 2
Other construction trades	990 677	970 986	19 691	831 264	93 813	2 486	74 276	1 037	33 1	32 1	60 5	63 8
Persons of Spanish origin may be of any race.												

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Total, all industries											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Black		Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
United States												
Employed persons 16 years and over—Con.												
Precision production, craft, and repair occupations—Con.												
Extraction occupations	292 695	286 075	265 199	5 565	10 961	777	17 198	261	33.5	32.3	62.3	74.4
Precision production occupations	4 255 872	3 497 808	3 129 295	619 150	227 546	81 663	216 731	72 103	39.8	38.9	72.6	63.2
Supervisors, production occupations	1 838 155	1 567 905	1 424 204	230 250	96 702	26 450	77 764	27 359	41.9	40.3	76.7	69.5
Precision metalworking occupations	987 253	927 750	841 629	47 505	50 274	7 929	51 058	5 438	37.1	34.8	72.6	61.8
Tool and die makers	187 550	184 253	175 600	2 768	3 297	404	5 133	192	41.3	34.8	77.8	69.6
Machinists	511 469	487 775	435 376	17 857	31 120	4 293	28 822	2 374	35.1	32.4	71.7	57.3
Sheet metal workers	122 273	117 487	107 359	3 977	5 352	637	7 651	269	35.1	33.8	70.7	67.2
Other precision metal workers	165 961	138 235	123 294	22 903	8 316	2 595	9 452	2 613	37.8	35.7	70.3	63.8
Precision textile, apparel, and furnishings machine workers	261 346	118 495	96 531	114 135	11 193	14 498	19 777	15 981	37.6	34.1	70.3	63.8
Precision food production occupations	411 885	119 773	92 112	73 026	28 586	13 144	33 730	7 130	36.2	34.2	60.4	56.2
Precision inspectors, testers, and related workers	99 691	72 146	64 802	22 248	4 433	3 529	3 501	2 135	40.2	37.5	80.5	67.3
Plant and system operators	240 754	231 724	206 297	7 633	17 975	1 167	8 757	329	40.5	33.1	77.9	77.9
Other precision production occupations	416 788	260 015	225 361	124 366	18 383	14 946	22 144	18 731	34.3	34.3	68.4	64.4
Operators, fabricators, and laborers	17 859 343	12 985 043	10 571 772	3 785 083	1 740 714	750 844	1 070 063	477 082	33.2	36.8	58.0	52.7
Machine operators, assemblers, and inspectors	9 084 988	5 438 751	4 439 277	2 803 586	685 039	571 893	493 391	377 402	33.9	37.5	61.3	51.1
Machine operators and tenders, except precision	5 960 505	3 553 079	2 876 464	1 826 754	471 558	396 610	367 610	261 162	34.1	37.6	59.9	48.4
Metalworking and plastic working machine operators	715 441	590 972	512 280	104 230	52 661	15 355	41 731	7 726	34.9	37.0	61.3	53.6
Fabricating machine operators, n.e.c.	31 820	20 940	17 772	9 430	1 958	1 104	1 998	703	33.9	38.5	60.1	56.5
Metal and plastic processing and woodworking machine operators	360 300	283 919	233 816	62 987	35 873	10 338	21 822	4 559	33.4	35.0	54.0	53.8
Printing machine operators	422 477	310 517	276 440	99 906	21 452	8 273	19 540	5 260	35.3	32.5	78.0	76.8
Textile machine operators	319 598	128 603	95 551	140 222	28 304	45 925	8 367	6 170	37.0	35.5	42.0	39.4
Textile sewing machine operators	829 080	48 372	780 708	577 308	8 004	11 267	13 459	117 075	34.1	39.1	39.5	42.2
Laundry and dry cleaning machine operators	173 226	60 251	112 975	43 122	28 189	11 756	6 485	12 009	35.2	43.8	53.6	38.6
Packaging and filling machine operators	101 599	49 708	38 495	39 649	7 439	8 222	5 873	5 779	32.9	32.6	57.8	50.0
Furnace, kiln, and oven operators, except food	144 071	137 360	113 082	5 386	19 638	1 078	7 605	331	38.9	35.2	61.5	61.5
Other specified machine operators	949 114	635 854	513 232	238 955	84 450	56 146	61 418	27 750	33.4	36.8	59.0	50.6
Miscellaneous and not specified machine operators	1 913 779	1 286 583	1 000 909	473 357	199 963	110 713	141 950	73 660	33.7	36.7	59.3	52.5
Fabricators, assemblers, and hand working occupations	2 299 462	1 477 024	1 211 548	641 504	173 004	118 069	139 963	82 645	32.4	35.6	61.8	56.9
Welders and cutters	712 599	673 357	569 286	30 841	65 085	6 448	58 026	3 076	32.8	34.2	61.5	57.4
Solders and brazers	30 510	6 625	5 272	19 283	511	2 557	1 604	3 145	32.7	35.6	53.7	55.8
Assemblers	1 459 308	733 579	584 069	564 100	100 655	105 279	74 241	73 109	31.9	35.7	62.2	57.1
Hand working occupations	97 045	63 463	52 921	27 280	6 753	3 785	6 092	3 315	34.6	36.1	59.7	53.8
Production inspectors, testers, samplers, and weighers	825 021	408 648	351 265	335 328	40 477	57 214	23 180	33 595	38.6	40.3	71.9	55.4
Graders and sorters, except agricultural	90 971	52 852	29 626	38 864	5 498	7 649	4 318	9 023	32.0	39.3	54.3	45.1
Other production inspectors, testers, samplers, and weighers	734 050	370 529	321 639	296 464	34 979	49 565	18 862	24 572	39.3	40.4	73.7	56.9
Transportation and material moving occupations	4 389 412	4 041 532	3 372 153	293 092	519 063	44 147	245 197	15 527	36.5	36.2	58.6	67.7
Transportation occupations	3 289 213	3 003 067	2 508 980	243 776	389 473	35 090	173 093	9 961	37.0	36.8	59.7	69.2
Motor vehicle operators	3 017 954	2 736 821	2 268 690	239 585	369 343	34 451	164 425	9 745	36.8	36.0	58.4	69.0
Truck drivers	2 223 946	2 151 375	1 812 173	62 304	265 907	7 950	126 168	3 362	32.0	32.0	56.3	67.1
Driver-sales workers	177 373	164 527	152 249	11 480	8 598	1 071	6 699	326	35.1	33.5	74.6	68.3
Other motor vehicle operators	616 635	420 919	304 268	165 801	94 838	25 430	31 558	5 957	40.5	38.4	63.0	68.8
Rail and water transportation occupations	271 259	266 246	240 290	4 191	20 130	639	8 668	216	32.1	33.4	73.1	78.7
Material moving equipment operators	100 199	1 038 465	863 173	49 316	129 590	9 057	72 104	5 566	35.3	33.4	55.4	60.5
Supervisors, material moving equipment operators	29 444	28 253	25 399	1 100	1 983	68	1 451	20	40.3	42.8	75.1	82.1
Crane, hoist and winch operators	149 274	146 209	121 729	2 266	19 131	649	9 443	141	37.6	32.1	53.8	69.9
Excavating, grading, and dozer machine operators	139 357	137 275	125 061	1 708	8 108	244	6 186	136	38.3	33.7	48.3	62.0
Other material moving equipment operators	782 124	726 728	590 984	44 242	100 368	8 096	55 024	5 269	34.3	33.4	56.3	59.5
Handlers, equipment cleaners, helpers, and laborers	4 384 943	3 504 760	2 760 342	688 405	536 612	134 804	331 475	84 153	27.5	34.3	52.2	53.2
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	9 853	8 332	7 084	1 172	1 094	321	169	34	41.1	38.8	77.0	77.9
Helpers, craft and production	259 058	232 620	187 819	20 186	29 312	4 510	27 073	2 719	26.0	33.5	54.4	56.8
Construction laborers	661 411	641 392	588 171	14 792	110 398	4 035	73 575	1 615	30.1	31.4	51.4	59.7
Freight, stock, and material handlers	1 259 182	1 066 495	868 251	162 752	149 182	21 981	75 529	10 245	25—	30.2	51.6	59.7
Garage and service station occupations, and equipment cleaners	430 031	386 790	324 993	35 970	43 051	5 463	27 087	2 371	25—	29.2	44.7	52.8
Hand packers and packagers	543 230	187 633	134 811	281 567	30 270	50 585	28 462	44 416	37.7	37.7	52.7	49.9
Laborers, except construction	1 222 178	986 498	749 213	171 966	173 305	47 909	99 580	22 753	30.9	34.1	55.3	51.9

¹Persons of Spanish origin may be of any race

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States										Agriculture, forestry, and fisheries		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Race										Spanish origin ¹		Median age					
	Total		White		Black						Male	Female	Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over	2 913 589	2 391 539	2 098 211	456 765	131 773	29 342	216 308	45 629	39.4	37.6	56.9	65.8	9.6	8.3	49.3	26.3		
Managerial and professional specialty occupations	144 639	116 662	110 054	26 366	2 958	743	3 753	722	37.0	33.2	88.9	90.4	52.3	31.8	32.1	20.9		
Executive, administrative, and managerial occupations	53 814	41 471	38 877	11 602	852	360	2 009	337	37.1	38.2	84.4	91.5	33.1	21.3	18.5	14.1		
Officials and administrators, public administration	5	5	5	5	—	—	—	—	40.0	—	100.0	—	100.0	—	—	—		
Financial managers	775	595	571	180	19	23	21	3	39.3	45.0	97.8	97.2	63.9	23.3	2.0	5.0		
Managers, marketing, advertising, and public relations	2 909	2 453	2 416	428	19	23	55	19	38.2	33.5	95.5	89.9	41.8	28.7	4.7	7.5		
Administrators, education and related fields	111	106	106	5	—	—	—	—	51.2	40.0	94.3	100.0	51.2	—	—	—		
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Other specified managers	2 231	1 689	1 544	483	52	19	90	43	38.9	38.9	82.7	88.2	34.1	15.7	10.5	3.7		
Managers and administrators, n.e.c.	38 484	30 243	28 578	7 895	554	241	1 276	185	39.3	38.6	83.5	90.2	30.8	19.5	22.1	18.5		
Salaries	29 329	23 263	21 976	5 609	402	126	1 005	144	39.1	37.4	84.8	91.5	33.1	19.2	95.7	70.2		
Self-employed	9 155	6 983	6 602	2 126	152	9	271	41	39.9	41.1	79.2	86.6	23.2	20.3	—	—		
Management related occupations	9 299	6 380	5 657	2 611	227	183	567	87	37.9	37.1	83.2	95.6	37.1	26.3	10.5	5.3		
Accountants and auditors	3 394	1 866	1 717	420	41	34	81	34	37.1	36.8	78.0	96.4	63.4	35.0	6.0	3.8		
Personnel, training, and labor relations specialists	2 528	1 916	1 602	308	14	10	339	27	36.1	36.7	71.3	90.7	22.7	23.4	9.3	8.3		
Buyers and purchasing agents	1 799	1 341	1 193	425	87	41	58	17	40.4	41.4	79.1	93.2	22.1	7.0	16.0	8.3		
Inspectors and compliance officers	764	608	583	133	6	3	583	7	37.8	27.8	85.4	89.1	22.0	12.8	2.6	3.8		
Other management related occupations	814	649	582	133	17	32	72	6	40.8	41.4	82.0	100.0	49.2	22.4	23.4	7.9		
Professional specialty occupations	90 825	75 191	71 177	14 764	2 106	383	1 744	385	35.9	30.8	91.4	89.6	62.9	40.0	39.6	26.3		
Engineers, architects, and surveyors	21 560	19 687	17 909	1 782	852	211	968	279	33.6	32.0	89.3	94.1	39.2	48.9	47.2	44.3		
Architects	17 010	15 407	13 903	1 504	775	211	752	249	33.0	32.9	87.5	93.5	36.3	51.8	59.2	51.8		
Engineers	3 907	3 665	2 451	1 214	84	45	201	22	36.8	28.4	96.8	93.4	34.4	38.4	0.5	2.5		
Civil engineers	2 369	2 222	1 471	751	45	—	137	22	36.8	26.3	96.8	93.4	34.4	38.4	0.5	2.5		
Electrical and electronic engineers	90 825	75 191	71 177	14 764	2 106	383	1 744	385	35.9	30.8	91.4	89.6	62.9	40.0	39.6	26.3		
Industrial engineers	179	177	177	32	—	—	—	—	41.5	40.0	97.6	100.0	61.2	100.0	21.7	—		
Mechanical engineers	179	177	177	32	—	—	—	—	41.5	40.0	97.6	100.0	61.2	100.0	21.7	—		
Other engineers	179	177	177	32	—	—	—	—	41.5	40.0	97.6	100.0	61.2	100.0	21.7	—		
Surveyors and mapping scientists	1 096	1 040	968	56	39	—	50	—	35.9	29.6	95.4	96.4	45.3	30.4	4.6	10.7		
Computer systems analysts and scientists	643	597	575	46	—	—	15	—	33.8	25.5	87.3	82.6	22.1	10.9	7.7	—		
Operations and systems researchers and analysts	310	246	246	64	19	7	190	7	37.6	31.2	100.0	100.0	67.5	51.6	7.3	10.9		
Mathematical scientists	64	52	47	5	5	—	—	—	35.9	30.0	96.2	100.0	36.5	41.7	—	—		
Natural scientists	220	146	133	65	—	—	9	—	39.3	32.9	100.0	100.0	82.9	32.4	7.5	—		
Chemists, except biochemists	20 969	18 037	17 332	2 678	353	128	315	76	34.8	30.0	92.6	88.9	67.1	43.7	10.5	16.8		
Other natural scientists	271	199	181	72	—	—	—	—	37.6	46.4	97.0	90.3	37.7	81.9	9.0	—		
Health diagnosing occupations	20 698	17 838	17 151	2 606	353	128	308	76	34.8	29.8	92.5	88.9	67.0	42.7	10.5	17.2		
Health assessment and treating occupations	29 120	25 432	24 840	3 553	270	68	175	43	39.2	29.8	99.4	98.2	96.6	69.4	53.6	21.8		
Registered nurses	782	280	243	462	22	12	72	12	38.7	32.5	86.4	88.6	52.5	27.3	28.6	7.4		
Other health assessment and treating occupations	461	321	208	113	8	—	12	—	39.5	33.8	72.2	85.3	37.5	22.1	19.4	4.9		
Teachers, except postsecondary	994	519	475	444	29	18	12	—	38.3	30.2	91.3	100.0	57.7	45.1	31.7	15.9		
Social scientists and urban planners	515	415	406	95	6	—	—	—	43.9	31.3	82.7	86.7	40.8	31.2	20.0	28.0		
Social and recreation workers	236	137	99	111	18	16	7	—	34.9	29.6	100.0	100.0	75.0	86.0	4.3	2.0		
Lawyers and judges	145	132	117	33	—	—	—	—	36.6	32.2	86.9	70.7	35.0	47.5	—	—		
Writers, artists, entertainers, and athletes	15 423	9 798	9 102	5 882	486	97	247	166	32.0	25.4	100.0	100.0	86.4	18.2	15.2	—		
Other professional specialty occupations	467	328	272	132	39	7	6	—	35.0	31.7	73.3	82.7	15.6	16.7	47.5	31.9		
Technical, sales, and administrative support occupations	130 666	94 108	88 926	1 305	1 997	—	2 259	3 138	35.3	35.3	77.1	86.4	22.3	9.9	12.1	5.4		
Technicians and related support occupations	22 926	13 905	12 595	8 600	491	133	969	247	35.4	26.3	77.5	90.7	22.8	19.8	17.1	2.4		
Health technicians and technicians	5 118	707	4 411	29	34	—	15	—	28.3	25.5	89.4	94.5	31.0	16.3	0.6	0.2		
Licensed practical nurses	83	16	10	67	6	—	15	—	33.3	59.1	56.3	88.1	—	37.3	—	—		
Other health technicians and technicians	5 035	691	4 344	617	28	29	15	—	28.1	25.5	90.2	94.6	31.7	16.0	0.6	0.2		
Engineering and science technicians	11 624	8 075	7 070	3 314	372	79	883	196	35.5	28.4	66.7	85.5	18.4	20.8	19.9	5.3		
Electrical and electronic technicians	3 400	2 128	2 033	126	—	—	12	—	36.5	22.8	86.3	96.4	25.9	14.9	2.4	—		
Industrial and mechanical engineering technicians	3 597	2 261	2 033	31	—	—	—	—	37.5	25.3	82.1	100.0	33.6	38.7	—	—		
Drafting and surveying technicians	3 461	2 947	2 367	644	251	11	512	82	36.1	28.6	87.4	90.8	26.4	28.6	35.1	9.2		
Other engineering and science technicians	7 564	4 888	4 452	2 493	121	68	359	114	35.2	28.5	76.2	83.4	20.1	18.6	11.6	4.6		
Technicians, except health, engineering, and science	6 184	5 123	4 898	983	85	25	71	10	36.3	29.7	92.9	92.3	28.7	30.4	14.9	1.3		
Airplane pilots and navigators	2 823	2 795	2 712	28	17	—	—	—	39.0	26.4	92.6	100.0	15.7	—	26.0	7.1		
Air traffic controllers and broadcast equipment operators	386	237	149	7	7	—	3	—	33.1	32.3	76.8	89.9	4.6	4.7	—	—		
Computer programmers	574	360	214	182	17	25	2	—	31.8	29.7	96.1	100.0	31.8	30.8	2.5	—		
Other technicians, except health, engineering, and science	2 401	1 731	1 621	626	44	—	24	8	33.1	29.6	95.0	90.0	48.9	37.3	1.6	1.8		

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States															
Agriculture, forestry, and fisheries															
Race				Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
Total		White		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Female
Employed persons 16 years and over—Con.															
Technical, sales, and administrative support occupations—Con.															
Sales occupations															
18 398	11 402	6 996	10 910	6 531	252	185	372	226	35.6	33.8	79.0	70.2	24.9	13.3	10.2
1 212	949	263	930	735	2	11	8	6	33.6	32.1	84.0	82.9	26.0	14.4	40.3
900	795	143	738	109	2	11	8	6	34.0	32.0	86.7	89.0	22.2	17.9	—
5 419	4 165	1 254	4 076	1 205	30	14	125	34	42.4	39.9	65.7	75.4	22.2	10.2	—
9 213	5 548	3 672	5 240	3 426	165	75	197	113	37.6	34.2	72.7	76.2	29.6	15.8	89.8
2 430	648	1 782	5 240	3 426	165	75	197	113	37.6	34.2	72.7	76.2	29.6	15.8	89.8
1 632	217	1 415	1 782	3 426	165	75	197	113	37.6	34.2	72.7	76.2	29.6	15.8	89.8
798	431	367	1 415	1 294	47	64	25	67	33.6	35.4	58.2	60.9	7.6	4.6	4.0
124	99	25	99	19	8	15	17	35	30.4	25	64.5	63.5	5.1	5.8	11.5
89 342	11 251	78 091	9 949	73 795	562	1 679	918	2 665	34.9	37.0	74.4	87.4	19.0	17.2	28.0
3 167	1 569	1 598	1 369	1 476	75	52	152	68	34.6	37.0	75.8	87.4	24.7	8.8	5.4
1 279	342	937	314	848	13	20	35	44	30.6	28.5	78.5	89.0	24.7	8.8	4.9
27 673	433	27 240	396	25 690	339	357	32	797	40.8	35.3	85.9	90.6	15.5	5.1	3.7
24 310	357	23 953	339	22 788	—	—	370	32	37.0	33.2	86.0	90.5	21.2	8.0	2.9
3 363	76	3 287	2 902	2 902	—	—	8	230	37.5	33.2	85.5	91.8	9.2	5.6	3.1
9 313	133	9 180	127	8 836	6	137	11	195	26.6	29.9	85.7	86.2	27.1	8.4	2.1
682	183	499	166	470	17	23	16	11	34.5	40.3	62.3	75.8	25.1	9.4	5.8
552	58	494	50	402	—	81	8	21	33.5	31.3	72.4	67.2	25.9	4.3	0.4
1 329	252	1 077	208	976	17	26	25	47	28.2	33.4	53.6	85.5	11.9	5.2	1.2
25 071	1 868	23 203	1 787	22 572	9	151	159	435	47.1	42.0	83.7	88.8	23.6	11.5	11.3
1 142	132	1 010	118	911	2	36	12	124	35.0	34.4	87.1	89.9	22.0	6.7	4.5
532	125	407	21	367	7	21	—	7	37.4	38.0	86.4	88.2	52.0	3.9	1.2
164	8	156	8	131	—	—	—	4	65+	34.0	75.0	75.6	—	—	—
584	289	295	218	253	58	15	—	34	25	34.4	58.8	67.1	7.6	2.0	—
642	334	308	290	260	26	20	26	38	33.2	40.1	73.1	63.0	21.6	4.9	1.2
1 302	861	683	405	441	85	44	12	39	31.4	36.6	68.5	66.4	3.5	4.5	1.8
1 132	615	517	524	474	38	16	21	62	28.1	38.8	66.5	84.9	9.8	1.2	3.5
1 492	731	641	609	641	44	96	62	62	34.9	42.3	62.7	59.0	8.3	2.2	1.6
1 196	879	837	292	727	27	20	42	16	25	28.5	62.7	89.6	24.0	7.3	9.1
924	67	857	67	759	—	332	233	428	34.0	39.2	70.0	80.5	20.4	3.2	—
11 166	2 372	8 794	2 033	8 064	145	44	—	—	—	—	—	—	—	4.7	4.2
Service occupations															
35 862	25 451	10 411	21 391	8 181	2 138	1 605	2 495	827	37.4	40.0	58.3	49.4	11.3	5.1	6.1
Private household occupations															
13 733	12 352	1 381	11 331	1 295	400	26	733	73	38.3	32.5	73.3	65.2	17.4	9.2	1.6
2 815	2 584	231	2 247	220	163	26	217	28	49.6	36.5	48.6	58.9	8.8	6.9	1.7
10 918	9 768	1 150	9 084	1 075	237	26	516	45	36.7	31.8	79.9	66.4	19.7	0.7	9.5
22 129	13 099	9 030	10 060	6 886	1 738	1 579	1 762	754	35.8	41.4	44.2	47.0	5.5	4.5	6.7
3 141	1 009	2 132	1 699	1 717	188	244	243	255	38.2	41.9	41.7	50.7	3.2	2.9	6.2
1 066	425	287	582	582	110	45	25	16	34.7	29.7	54.6	70.2	12.7	10.3	5.4
13 995	9 372	4 623	7 490	3 278	1 157	1 075	1 078	337	35.4	44.5	42.0	38.1	5.0	3.3	6.9
3 927	2 293	1 634	1 649	1 309	283	215	416	146	36.9	39.6	52.4	58.5	7.3	7.7	9.6
Farming, forestry, and fishing occupations															
2 454 203	2 086 335	367 868	1 834 331	317 553	111 992	21 623	187 260	37 476	40.3	38.9	55.3	60.3	7.3	6.5	34.0
Precision production, craft, and repair occupations															
39 174	37 379	1 795	32 606	1 344	1 564	300	4 386	177	34.6	33.9	56.9	53.9	5.2	6.6	6.5
21 740	21 478	262	18 714	201	863	35	2 644	31	34.7	30.4	54.7	62.2	3.0	8.8	8.8
783	764	19	683	19	14	—	75	9	42.8	43.8	72.0	47.4	5.9	5.2	26.3
3 332	3 286	46	2 732	46	102	—	442	2	34.7	30.4	54.3	63.0	2.2	17.4	4.3
3 356	3 314	42	2 933	27	102	15	436	9	34.2	27.5	56.2	54.8	4.5	7.8	—
Electronic repairers, communications and industrial equipment															
189	176	13	160	7	—	—	—	—	41.1	25	88.1	100.0	8.5	5.1	—
178	170	8	163	10	—	8	—	—	41.7	60.0	66.5	—	—	12.9	—
13 902	13 786	134	12 023	102	645	12	1 691	20	34.3	30.3	52.9	66.4	2.7	7.1	11.9
Construction trades															
9 297	8 866	431	7 814	363	291	34	937	47	33.8	32.4	57.5	59.4	6.9	11.1	11.8
1 274	1 238	36	1 083	36	34	3	121	13	33.4	34.0	74.5	65.4	15.4	38.9	13.9
4 183	4 076	107	3 722	93	127	3	236	13	37.3	33.5	52.9	65.4	6.1	11.2	14.0
706	698	8	614	8	12	—	84	—	36.8	30.0	80.2	100.0	4.2	—	—
904	761	143	665	112	33	25	60	18	34.4	31.9	43.4	59.4	5.1	3.5	4.9
1 112	1 069	93	914	43	11	—	246	10	29.1	41.1	56.1	48.8	4.7	—	—
1 118	1 024	94	816	71	74	6	190	6	28.5	25	51.3	55.3	5.9	10.4	25.5

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Agriculture, forestry, and fisheries											
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
	Total		White		Male	Female	Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female								
Extraction occupations	802	741	683	55	21	—	33.8	30.6	59.4	42.6	9.7	—
Precision production occupations	7 335	6 294	5 395	725	389	231	35.5	36.0	63.0	50.1	9.8	8.5
Supervisors, production occupations	4 608	4 230	3 755	309	148	25	32.6	34.4	66.1	74.3	12.1	4.6
Precision metalworking occupations	881	842	614	25	107	14	35.7	31.1	51.0	7.7	2.1	11.6
Tool and die makers	36	35	6	—	23	—	25	25	71.4	100.0	—	—
Armament	623	649	491	10	69	14	32.0	33.6	52.7	8.3	2.8	—
Sheet metal workers	105	102	83	3	15	—	39.8	35	25.5	—	—	1.8
Other precision metal workers	67	50	34	11	—	—	36.1	25	64.3	—	—	2.0
Precision textile, apparel, and furnishings machine workers	115	50	50	42	—	16	44.0	38.7	68.0	66.2	—	3.1
Precision food production occupations	1 059	538	401	316	101	171	30.9	37.8	52.0	34.2	—	16.0
Precision inspectors, testers, and related workers	72	61	61	11	—	—	51.3	25	50.8	34.2	—	5.8
Plant and system operators	510	503	444	59	33	2	42.4	25	71.4	71.4	11.7	6.2
Other precision production occupations	90	70	70	17	—	3	50.3	35.0	57.1	60.0	8.6	4.3
Operators, fabricators, and laborers	109 045	89 154	66 375	14 395	11 766	3 074	31.3	34.2	43.8	43.1	2.7	7.4
Machine operators, assemblers, and inspectors	24 111	18 378	13 668	4 058	2 733	1 019	31.8	34.4	46.9	45.5	3.6	2.2
Machine operators and tenders, except precision	17 271	13 372	9 681	2 714	2 190	615	31.4	34.4	44.1	43.6	3.2	7.7
Metalworking and plastic working machine operators	464	401	267	37	108	26	34.1	33.1	54.6	34.9	0.5	8.2
Fabricating machine operators, n.e.c.	15	8	—	7	—	—	30.0	30.0	—	100.0	—	85.7
Metal and plastic processing and woodworking machine operators	1 068	954	730	88	127	19	29.6	25	43.1	59.6	6.3	—
Printing machine operators	194	131	80	57	31	6	34.3	42.0	75.6	46.0	3.8	—
Textile machine operators	291	226	173	44	36	21	29.5	33.7	51.8	60.0	3.1	—
Textile sewing machine operators	205	126	79	60	14	—	35.9	33.3	41.3	38.0	—	38.1
Laundry and dry cleaning machine operators	50	—	—	19	—	25	—	36.9	—	—	—	—
Packaging and filling machine operators	570	277	185	194	15	34	32.8	38.8	40.8	31.1	0.2	2.7
Finance, kind, and open operators, except food	655	607	481	39	73	—	38.0	37.8	60.1	48.8	4	1.3
Other specified machine operators	4 620	3 577	2 651	657	525	232	30.7	37.8	41.4	38.6	2.9	9.5
Miscellaneous and not specified machine operators	9 139	7 065	5 002	1 512	1 261	343	31.1	33.1	43.0	46.1	2.9	5.4
Fabricators, assemblers, and hand working occupations	5 104	4 094	3 233	728	153	170	32.7	32.5	51.7	47.7	2.7	1.2
Welders and cutters	2 856	2 847	2 283	2	56	6	33.4	28.2	53.1	100.0	2.4	—
Solders and brazers	8	—	—	—	—	—	—	50.0	—	—	—	8.4
Assemblers	1 679	897	687	585	81	113	31.2	32.1	48.4	53.2	2.5	1.5
Hand working occupations	561	350	223	134	16	49	27.2	36.4	48.6	27.0	4.0	2.4
Production inspectors, testers, samplers, and weighers	1 736	912	754	616	91	124	33.8	36.8	66.2	51.6	13.0	6.0
Graders and sorters, except agricultural	396	237	198	135	37	17	30.7	35.9	69.6	51.6	13.1	5.7
Other production inspectors, testers, samplers, and weighers	1 340	675	556	481	54	107	35.4	37.2	65.0	49.8	13.0	1.9
Transportation and material moving occupations	44 069	42 268	32 261	1 503	5 129	199	33.2	33.2	46.5	63.7	2.2	3.8
Transportation occupations	33 592	32 251	24 965	1 202	4 063	90	33.2	33.1	47.5	65.5	2.4	3.8
Motor vehicle operators	33 237	31 932	24 713	1 176	4 063	80	33.2	32.7	47.3	65.5	2.3	4.6
Truck drivers	31 251	30 060	23 221	1 091	3 894	51	33.2	32.6	46.9	65.5	2.3	4.5
Driver-sales workers	1 055	1 023	914	32	42	—	34.7	30.3	65.7	56.3	2.2	18.8
Other motor vehicle operators	931	849	578	53	127	29	33.6	34.1	38.5	69.5	3.1	8.5
Rail and water transportation occupations	355	319	252	26	—	—	33.5	46.0	66.5	66.7	9.7	—
Material moving equipment operators	10 477	10 017	7 296	301	1 066	109	33.1	33.7	43.3	58.3	1.5	1.7
Supervisors, material moving equipment operators	49	44	44	5	—	—	26.1	50.0	79.5	—	11.4	2.6
Crane, hoist and winch operators	404	372	289	32	22	—	32.9	33.0	39.0	75.0	2.2	—
Excavating, grading, and dozer machine operators	2 055	1 982	1 746	9	92	64	35.9	25	41.6	87.7	1.2	3.0
Other material moving equipment operators	7 969	7 619	5 217	255	952	45	32.5	33.8	43.7	51.4	1.5	5.5
Handlers, equipment cleaners, helpers, and laborers	40 865	28 508	20 446	8 834	4 203	1 856	26.9	34.3	38.0	39.0	2.9	2.1
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	184	184	160	—	20	—	29.7	—	56.0	—	4.3	—
Helpers, craft and production	720	583	415	78	88	37	25	37.8	49.6	49.6	1.4	5.1
Construction laborers	2 205	2 034	1 521	134	185	10	27.6	27.6	46.5	29.8	5.6	—
Freight, stock, and material handlers	6 473	5 825	4 317	529	814	40	25	33.7	37.7	48.0	1.7	3.1
Garage and service station occupations, and equipment cleaners	756	629	488	80	94	20	28.6	36.2	41.5	44.1	5.6	9.4
Hand packers and packagers	9 707	3 175	2 054	4 650	372	880	26.1	36.1	32.5	35.9	1.3	1.6
Laborers, except construction	20 820	16 078	11 491	3 363	2 630	869	28.5	32.2	37.6	41.9	3.3	2.2

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Mining															
	Race				Spanish origin¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female		
	Male	Female	Male	Female	Male	Female										
Employed persons 16 years and over																
1 028 178	904 005	124 173	838 129	110 782	33 493	8 536	52 479	5 652	34.3	32.3	68.8	90.2	14.6	15.4	2.8	1.2
163 274	142 788	20 486	137 500	18 771	2 021	1 055	3 211	596	39.0	32.2	93.5	96.6	62.0	42.0	6.3	2.2
90 296	76 203	14 093	73 876	12 856	1 072	783	1 656	399	42.2	33.5	89.8	96.1	49.6	32.9	7.5	2.6
8	8	—	—	—	—	—	—	—	30.0	38.4	100.0	—	—	—	—	—
2 759	2 372	387	2 338	355	4	22	76	5	38.9	36.9	98.0	98.4	77.1	31.3	0.4	1.6
2 951	2 876	75	2 793	67	38	—	33	5	42.7	36.9	90.3	100.0	50.9	26.7	8.7	—
85	85	—	85	—	—	—	—	—	41.3	—	89.4	—	47.1	—	—	—
10 154	8 709	1 445	8 405	1 379	174	47	242	19	38.5	33.3	91.7	96.3	49.3	28.0	16.8	9.3
40 958	40 758	4 200	40 043	3 992	245	109	675	83	45.2	39.9	86.9	93.3	44.3	19.2	9.5	3.9
40 807	36 816	3 991	36 150	3 783	239	109	646	83	44.7	39.3	87.7	93.9	45.7	19.0	—	—
4 151	3 942	209	3 893	209	6	—	29	—	49.2	55.2	78.7	81.3	31.1	22.0	98.5	78.9
29 381	21 395	7 986	20 204	7 063	611	605	622	287	37.0	31.5	93.6	97.5	56.5	41.1	1.6	0.9
16 856	11 001	5 855	10 314	5 140	283	463	353	199	34.3	30.9	93.3	98.0	76.3	46.8	1.1	0.5
4 439	3 450	989	3 204	848	163	103	74	50	40.1	34.1	87.2	98.1	39.8	26.3	1.2	—
3 938	3 262	676	3 175	656	54	17	85	18	39.7	30.5	94.5	95.9	36.0	33.0	2.8	3.8
2 427	2 340	87	2 231	79	61	8	94	—	40.3	30.5	72.9	80.5	8.4	26.4	0.1	—
1 721	1 342	379	1 280	340	50	14	16	20	40.1	33.0	96.3	95.3	70.7	43.5	7.2	3.2
72 978	66 585	6 393	63 624	5 915	949	272	1 555	197	34.6	29.8	97.8	97.5	76.2	62.0	4.9	1.1
36 471	35 285	1 186	33 608	1 094	495	32	889	81	33.8	26.8	96.8	95.9	67.9	59.4	2.6	0.5
89	75	14	75	14	—	—	—	—	33.6	30.0	100.0	100.0	78.7	50.0	—	—
34 725	33 607	1 118	32 000	1 026	483	32	785	81	34.0	26.9	97.3	95.8	70.2	62.3	2.6	0.5
1 325	1 284	41	1 167	41	63	—	29	10	32.6	25	96.9	100.0	72.7	70.7	1.6	—
1 314	1 304	10	1 243	10	22	—	44	18	35.4	30.0	95.9	100.0	75.1	100.0	0.6	—
1 499	1 411	68	1 354	68	12	7	9	—	31.8	29.6	97.9	97.2	68.5	53.3	1.8	—
1 332	1 317	15	1 254	8	16	—	57	—	34.9	25	92.1	100.0	65.7	53.3	0.5	—
29 275	28 291	984	26 982	2 226	370	25	104	53	34.1	27.1	97.5	97.2	70.1	64.6	2.9	0.6
1 657	1 603	54	1 533	54	12	—	—	—	30.5	25	88.2	96.3	18.5	3.7	1.7	—
2 159	1 795	364	1 665	343	64	6	56	14	35.3	30.4	99.7	100.0	73.0	81.0	1.6	1.9
833	615	218	570	209	32	9	18	—	35.2	31.9	99.7	97.2	69.3	56.4	2.0	—
189	128	61	122	61	6	—	—	—	39.9	30.4	95.3	75.4	55.5	16.4	8.6	—
27 411	24 261	3 150	23 340	2 935	276	117	488	63	36.0	29.3	99.2	98.5	89.3	64.6	9.2	1.3
3 667	2 823	844	2 574	709	109	70	75	44	46.0	31.2	97.4	96.6	71.5	48.5	1.8	1.5
23 744	21 438	2 306	20 766	2 226	167	47	413	19	36.0	28.7	99.5	99.3	91.7	70.6	10.2	1.2
64	60	4	60	4	—	—	—	—	48.6	40.0	100.0	100.0	88.3	100.0	11.7	—
201	67	134	52	127	10	5	13	5	38.7	43.9	88.1	100.0	7.5	44.0	—	1.5
138	19	119	14	112	10	5	5	5	54.0	44.7	100.0	100.0	26.3	49.6	—	1.7
63	48	15	38	15	10	—	8	—	35.7	33.3	83.3	100.0	—	—	—	—
340	332	8	327	2	—	—	5	—	32.9	31.7	91.3	100.0	39.8	75.0	—	75.0
819	668	151	640	151	14	—	—	—	36.9	32.3	99.0	100.0	84.9	36.4	2.1	—
24	17	7	17	7	—	—	—	—	31.1	40.0	82.4	100.0	82.4	100.0	—	—
2 012	1 777	235	1 754	220	10	15	26	—	37.5	30.1	99.7	100.0	98.1	91.9	2.5	—
1 991	1 421	570	1 316	487	36	58	49	17	37.6	31.9	96.8	94.6	50.3	57.5	1.6	1.2
464	159	305	153	275	6	30	—	13	33.1	43.0	75.5	95.4	45.9	38.7	4.4	—
151 901	65 804	86 097	60 719	77 458	3 089	5 537	2 842	3 909	34.3	32.3	88.5	92.7	25.2	10.9	1.7	0.8
33 058	26 489	6 569	24 511	5 617	1 158	479	1 359	255	32.4	29.9	91.0	93.5	24.4	33.9	2.1	1.3
294	241	53	200	39	27	5	8	—	33.4	40.5	83.4	90.6	32.8	24.5	2.9	—
56	21	35	6	29	15	—	—	—	32.0	34.2	100.0	100.0	—	—	—	—
238	220	18	194	10	12	5	8	—	33.7	49.3	81.8	72.2	35.9	16.7	3.2	—
23 132	19 082	4 050	17 620	3 605	780	270	1 134	180	31.9	29.7	89.6	91.5	19.0	25.8	1.5	1.1
2 258	2 063	195	1 943	161	27	31	93	—	32.7	28.9	95.1	82.6	8.9	20.0	0.5	1.0
7 991	6 122	1 869	5 483	1 710	343	66	427	90	31.3	30.1	100.0	92.7	34.3	22.3	1.6	1.7
12 746	10 760	1 986	10 083	1 734	354	173	609	90	31.7	29.3	86.6	91.2	22.7	29.6	1.6	0.6
9 632	7 366	2 266	6 691	1 973	351	204	217	75	34.0	30.1	95.0	97.2	38.1	48.8	3.7	1.6
1 098	1 098	—	1 096	—	2	—	10	—	36.7	—	96.0	97.2	31.1	—	—	—
234	175	59	160	51	8	—	160	6	33.9	42.3	74.9	100.0	12.0	—	—	—
3 171	2 141	1 030	1 883	861	114	130	81	4	31.7	28.8	98.9	100.0	61.3	65.4	1.9	—
5 129	3 952	1 177	3 552	1 061	227	74	126	65	34.9	31.0	93.4	94.6	28.7	36.7	5.8	3.1

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States											
	Mining											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	White			Black			Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Total	Male	Female	Total	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con												
Sales occupations.....	10 327	9 480	847	54	60	194	21	34.7	37.6	89.0	86.4	18.3
Supervisors and proprietors, sales occupations.....	735	708	27	13	13	10	—	39.2	41.2	87.3	92.6	63.0
Salaries.....	695	670	25	13	13	10	—	38.8	41.7	86.9	92.6	68.0
Self-employed.....	40	38	2	—	—	—	—	60.0	31.3	94.7	100.0	100.0
Sales representatives, finance and business services.....	561	7 927	334	41	40	165	21	38.3	37.2	95.0	90.6	37.5
Sales representatives, commodities, except retail.....	8 261	3 261	7 826	286	286	7 826	286	32.6	32.6	89.6	89.6	30.5
Sales workers, retail and personal services.....	762	340	422	318	20	19	21	38.4	34.9	70.3	82.9	2.8
Cashiers.....	377	67	310	64	20	10	21	38.0	38.0	43.3	81.9	2.3
Other sales occupations, retail and personal services.....	385	112	273	—	—	9	—	42.7	34.7	76.9	85.7	4.5
Sales related occupations.....	8	8	—	—	—	—	—	30.0	—	100.0	—	—
Administrative support occupations, including clerical.....	108 516	29 635	78 881	1 877	4 998	1 289	3 633	35.9	32.6	86.0	92.7	9.0
Supervisors, administrative support occupations.....	6 794	4 538	2 256	134	111	161	66	42.0	38.0	92.7	93.5	15.6
Computer equipment operators.....	4 647	2 547	2 099	236	246	99	128	30.5	30.5	97.2	97.2	10.5
Secretaries, stenographers, and typists.....	40 058	547	39 511	35	1 790	29	1 676	34.4	32.3	84.8	94.3	9.1
Stenographers and typists.....	37 378	480	36 898	35	1 470	29	1 428	34.3	32.4	87.9	94.4	9.4
Receptionists.....	2 680	67	2 747	67	2 045	—	248	34.8	32.1	62.7	91.7	19.4
Other information clerks.....	1 999	32	1 967	13	1 718	16	40	51.0	28.0	68.8	92.3	11.6
File clerks.....	846	390	456	28	28	28	28	36.2	30.8	77.7	92.3	17.7
Other records processing occupations, except financial.....	1 784	315	1 469	46	214	28	198	28.7	27.5	88.6	81.6	14.6
Bookkeepers, accounting, and auditing clerks.....	1 432	531	901	18	49	25	45	34.6	31.7	84.4	95.9	32.2
Payroll and timekeeping clerks.....	15 134	2 411	12 723	124	564	91	377	38.9	35.5	93.3	93.0	8.3
Other financial records processing occupations.....	2 053	455	1 598	15	93	24	101	40.1	31.0	92.1	93.6	18.2
Telephone operators.....	1 143	338	805	6	68	—	38	42.2	32.3	96.2	91.4	39.3
Mail and message distributing occupations.....	602	713	115	5	34	—	54	40.5	38.7	87.5	87.5	2.6
Production coordinators and expeditors.....	1 300	774	526	239	117	70	82	27.8	25.0	78.9	80.6	0.8
Traffic, shipping, and receiving clerks.....	2 889	1 716	1 582	72	76	119	34	34.2	33.3	88.5	93.2	10.1
Stock and inventory clerks.....	1 220	905	315	165	52	29	246	31.5	31.5	75.9	89.2	13.0
Other material recording, scheduling, and distributing clerks.....	5 556	4 825	4 448	217	96	283	28	34.2	30.8	78.8	92.2	9.0
Adjusters and investigators.....	4 120	2 976	1 144	104	37	73	13	38.7	34.7	71.9	75.9	10.0
Data-entry keyers.....	1 438	1 071	367	37	71	14	15	39.4	30.8	80.6	91.6	18.1
Other administrative support occupations.....	2 871	289	2 582	27	455	33	193	31.4	31.1	89.6	91.8	7.0
Service occupations.....	12 630	4 801	7 829	384	739	195	423	37.9	33.1	89.0	90.7	10.5
Private household occupations.....	17 577	15 140	2 437	1 314	404	1 126	266	40.5	38.4	56.1	52.1	3.4
Protective service occupations.....	4 579	4 325	254	140	10	168	5	48.1	—	48.8	55.9	3.5
Guards.....	4 327	4 073	254	130	10	165	5	48.3	39.0	46.8	55.9	9.1
Other protective service occupations.....	252	252	—	10	—	3	—	45.3	—	81.3	—	8.3
Food preparation and service occupations.....	12 998	10 815	2 183	1 174	394	958	261	37.5	36.3	59.0	51.7	3.3
Health service occupations.....	1 535	1 314	221	203	17	118	13	43.5	37.5	52.9	50.7	4.0
Cleaning and building service occupations, except household.....	105	37	68	10	—	—	—	45.5	37.9	94.6	88.2	18.9
Personal service occupations.....	10 957	9 154	1 803	935	311	804	226	36.5	38.3	60.0	50.5	3.2
Farming, forestry, and fishing occupations.....	401	310	91	36	56	36	15	49.5	39.7	50.0	50.5	2.2
Precision production, craft, and repair occupations.....	694	680	14	33	—	66	—	32.6	26.3	57.5	100.0	8.5
Mechanics and repairers.....	425 400	417 455	7 945	13 522	779	25 404	350	34.1	34.1	64.6	76.1	5.0
Supervisors, mechanics and repairers.....	74 498	73 681	6 781	1 785	64	4 539	61	31.6	31.6	68.2	77.8	2.5
Automotive mechanics, including body.....	3 221	3 212	9	38	—	77	—	41.4	40.6	74.4	100.0	5.9
Industrial machinery repairers.....	6 363	6 319	45	241	14	461	—	34.0	31.9	66.1	85.9	1.6
Electronic repairers, communications and industrial equipment.....	22 694	22 416	278	472	2	1 681	48	34.1	28.8	68.9	81.7	2.8
Heating, air conditioning, and refrigeration mechanics.....	874	851	23	6	—	33	—	36.2	39.5	84.5	26.1	7.3
Other mechanics and repairers.....	267	252	15	12	9	6	—	26.7	26.7	80.2	100.0	0.8
Construction trades.....	41 059	40 631	428	1 016	39	2 281	13	34.7	34.7	67.2	75.7	2.0
Supervisors, construction occupations.....	36 831	36 212	619	1 074	55	2 550	51	34.1	31.0	69.4	70.3	4.1
Carpenters.....	3 459	3 413	46	158	—	138	—	41.0	34.5	81.0	84.8	13.7
Electricians.....	3 949	3 845	104	158	—	300	30	36.6	32.3	60.4	75.0	2.9
Painters, construction and maintenance.....	16 872	16 733	139	218	15	673	8	35.1	30.6	75.9	83.5	3.7
Plumbers, pipefitters, and steamfitters.....	939	869	70	56	18	175	29	32.5	29.1	57.3	25.7	2.9
Other construction trades.....	3 278	3 186	90	234	6	433	14	33.2	32.0	64.8	82.2	2.6
Persons of Spanish origin may be of any race.	8 334	8 164	170	374	16	833	9	29.5	31.1	58.4	64.7	2.4

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

	Mining											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	Total			White			Black		Male	Female	Male	Female
	Both sexes	Male	Female	Male	Female	Male	Female	Male				
Employed persons 16 years and over—Con.												
Extraction, production, craft, and repair occupations—Con.												
Extraction occupations	278 532	272 905	5 627	253 843	4 799	9 607	582	16 403	206	33.4	62.3	75.6
Extraction occupations, except mining	35 539	34 657	882	32 546	754	1 056	78	1 912	32	39.7	70.1	81.5
Supervisors, production occupations	10 820	10 547	273	10 071	228	178	29	562	11	41.6	75.0	90.7
Precision production occupations	5 463	5 420	43	4 875	33	255	10	414	1	35.7	73.8	53.5
Precision metalworking occupations	96	96	—	89	—	—	—	13	—	38.2	69.8	—
Tool and die makers	4 482	4 459	23	4 014	20	238	3	290	1	35.4	73.8	43.5
Machinists	152	152	—	138	—	—	—	5	—	35.7	80.3	3.3
Sheet metal workers	733	713	20	634	13	17	7	106	5	37.4	73.2	65.0
Other precision metal workers	90	90	—	81	—	—	—	13	—	36.7	50.9	12.7
Precision textile, apparel, and furnishings machine workers	74	74	—	61	—	—	—	8	—	26.3	50.0	13.2
Precision food production occupations	246	244	2	239	2	—	—	9	—	32.5	68.4	100.0
Precision inspectors, testers, and related workers	18 211	17 729	482	16 721	424	574	29	873	4	39.8	67.1	82.0
Plant and system operators	635	594	41	538	34	34	—	33	—	37.3	38.7	68.3
Other precision production occupations												
Operators, fabricators, and laborers	269 332	262 138	7 194	236 948	5 983	13 514	761	19 830	531	32.5	57.9	70.1
Machine operators, assemblers, and inspectors	46 496	44 852	1 644	40 235	1 194	2 263	297	3 576	141	32.9	64.9	69.6
Machine operators and tenders, except precision	16 611	15 607	1 004	13 439	716	1 232	185	1 536	103	33.4	58.9	69.9
Metalworking and plastic working machine operators	2 386	2 330	56	2 090	56	101	—	222	3	31.8	58.7	83.9
Fabricating machine operators, n.e.c.	132	116	16	114	—	2	—	5	—	28.3	69.8	100.0
Metal and plastic processing and woodworking machine operators	793	734	59	671	44	42	—	54	—	32.1	48.9	69.5
Printing machine operators	501	316	185	233	134	62	39	42	7	29.5	88.3	82.2
Textile machine operators	241	191	50	162	26	29	24	42	—	41.0	44.5	54.0
Textile sewing machine operators	265	91	174	75	103	14	16	2	47	35.8	50.5	41.4
Laundry and dry cleaning machine operators	32	26	6	26	—	—	—	—	—	31.0	38.5	100.0
Packaging and filling machine operators	104	104	—	81	—	16	—	—	—	28.0	64.4	—
Furnace, kiln, and oven operators, except food	1 781	1 754	27	1 516	27	158	—	99	—	35.8	65.2	100.0
Other specified machine operators	10 376	9 945	431	8 471	320	808	80	1 105	46	33.6	57.8	72.9
Miscellaneous and not specified machine operators												
Fabricators, assemblers, and hand working occupations	24 610	24 269	341	22 243	256	828	66	1 785	16	33.5	67.0	74.2
Welders and cutters	22 504	22 360	144	20 658	113	647	27	1 536	2	33.9	67.2	72.2
Solders and brazers	52	42	10	34	—	—	—	18	—	31.3	66.7	60.0
Assemblers	1 770	1 591	179	1 311	125	172	39	222	14	28.9	67.3	75.4
Hand working occupations	284	276	8	250	8	9	—	9	—	27.8	52.2	100.0
Production inspectors, testers, samplers, and weighers	5 275	4 976	299	4 553	222	203	46	255	22	33.7	73.8	63.2
Graders and sorters, except agricultural	363	301	62	277	62	7	—	26	—	31.2	63.5	79.0
Other production inspectors, testers, samplers, and weighers	4 912	4 675	237	4 276	160	196	46	229	22	33.9	74.5	59.1
Fabricators, assemblers, and hand working occupations, n.e.c.	159 340	156 595	2 745	143 921	2 472	6 708	133	10 278	155	33.4	56.1	71.3
Transportation occupations	63 574	62 248	1 326	56 079	1 230	3 457	139	4 895	56	34.0	53.8	76.5
Motor vehicle operators	52 554	52 535	1 019	47 210	939	2 995	45	4 113	35	33.9	53.7	73.7
Truck drivers	52 447	51 507	940	46 403	865	2 849	40	3 987	30	33.8	53.7	74.9
Driver-sales workers	116	110	6	72	—	24	—	20	—	35.0	65.5	100.0
Other motor vehicle operators	991	918	73	735	68	122	5	106	5	35.6	57.3	56.2
Rail and water transportation occupations	10 020	9 713	307	8 869	291	462	21	782	21	34.7	54.4	66.0
Material moving occupations	95 766	94 347	1 419	87 842	1 242	3 251	84	5 383	99	33.1	57.6	86.3
Supervisors, material moving equipment operators	708	702	6	680	—	11	—	16	—	40.0	76.1	100.0
Crane, hoist, and winch operators	21 799	21 632	167	19 662	145	707	3	2 465	12	28.9	55.9	76.0
Excavating, grading, and dozer machine operators	24 467	24 298	169	23 108	162	584	7	765	12	36.9	65.7	100.0
Other material moving equipment operators	48 792	47 715	1 077	44 392	935	1 949	74	2 137	69	33.4	60.7	64.7
Handlers, equipment cleaners, helpers, and laborers	63 496	60 691	2 805	52 792	2 317	4 543	331	5 976	235	29.5	57.3	69.3
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	48	48	—	42	—	6	—	—	—	32.2	85.4	—
Helpers, craft and production	22 863	21 533	1 330	19 110	42	1 193	116	2 180	159	28.5	58.8	70.8
Construction laborers	4 852	4 745	87	4 066	45	374	22	505	17	29.3	57.5	44.8
Freight, stock, and material handlers	11 173	10 908	265	9 638	223	822	31	804	10	31.9	52.9	80.4
Garage and service station occupations, and equipment cleaners	1 136	1 117	19	933	19	121	—	108	—	31.6	55.4	84.2
Hand packers and packagers	665	586	79	483	19	57	—	62	—	27.6	62.8	55.7
Laborers, except construction	22 779	21 734	1 025	18 520	834	1 970	162	2 317	49	29.4	57.9	67.4
Persons of Spanish origin may be of any race.												

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States										Construction, total																													
	Total					Race					Black					Spanish origin ¹					Median age					Percent high school graduates					Percent completed 4 or more years of college					Percent self-employed				
	Both sexes		Male		Female		White		Black		Male		Female		Male		Female		Male		Female		Male		Female		Male		Female		Male		Female							
Employed persons 16 years and over	5 739 598	5 259 832	479 766	4 667 090	438 746	377 758	26 234	329 569	18 054	35.0	35.0	65.2	84.3	8.0	8.4	15.7	5.5																							
Managerial and professional specialty occupations	529 753	473 492	56 261	445 382	52 259	11 811	2 097	13 106	1 358	36.7	36.7	86.6	92.5	35.3	23.3	14.1	6.5																							
Executive, administrative, and managerial occupations	393 537	347 026	46 511	331 020	43 458	8 852	1 679	9 169	1 135	41.7	41.7	82.7	91.8	26.6	17.8	18.2	5.1																							
Officials and administrators, public administration	10 583	10 361	222	9 778	204	389	77	226	28	39.1	39.8	97.6	92.0	65.9	26.6	1.5	—																							
Financial managers	6 760	5 330	1 430	5 114	1 384	77	12	110	28	39.1	39.8	97.6	92.0	65.9	26.6	1.5	—																							
Managers, marketing, advertising, and public relations	10 066	9 301	765	9 120	758	70	7	157	—	40.7	34.8	94.1	91.8	40.4	24.3	4.9	2.2																							
Administrators, education and related fields	473	439	34	396	34	36	—	18	—	47.2	35.0	87.9	100.0	36.4	50.0	11.8	35.3																							
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																							
Other specified managers	12 016	10 005	2 011	9 500	1 773	255	130	425	46	42.4	38.0	85.9	91.7	33.7	20.1	12.9	4.9																							
Managers and administrators, n.e.c.	285 515	257 538	27 977	246 416	26 588	6 339	789	6 738	669	41.8	39.5	81.3	90.2	24.8	14.0	23.2	7.5																							
Salaries	221 989	197 220	24 769	188 919	23 527	4 558	717	4 821	537	42.0	39.1	83.8	91.1	28.5	13.9	99.2	—																							
Self-employed	63 526	60 318	3 208	57 497	3 061	1 781	72	1 917	132	41.0	42.9	73.3	83.7	12.8	14.9	—	65.1																							
Management related occupations	68 124	54 052	14 072	50 678	12 717	1 686	723	1 495	392	39.8	34.0	89.4	94.7	31.4	23.8	2.3	1.3																							
Accountants and auditors	24 830	15 587	9 243	15 537	6 482	318	283	359	260	35.8	34.3	76.4	96.1	62.9	26.7	1.1	0.7																							
Personnel, training, and labor relations specialists	10 577	8 333	2 244	8 800	1 834	296	174	220	67	41.1	33.8	77.7	95.6	23.0	28.9	6.6	0.4																							
Buyers and purchasing agents	7 147	6 818	329	6 259	1 144	1 099	16	249	—	39.1	32.9	97.4	96.5	60.5	43.7	3.3	—																							
Inspectors and compliance officers	21 350	20 603	747	19 147	619	780	113	622	31.9	42.2	31.9	85.2	81.3	10.8	10.4	1.5	0.3																							
Other management related occupations	3 631	2 911	720	2 706	647	145	67	24	—	40.0	35.3	90.1	96.5	49.2	24.0	8.2	5.1																							
Professional specialty occupations	136 216	126 466	9 750	114 380	8 801	2 959	418	3 937	223	38.3	32.7	97.2	95.8	58.9	49.1	3.1	12.9																							
Engineers, architects, and surveyors	110 808	107 697	3 111	97 349	2 674	2 199	183	3 114	71	38.1	31.0	97.6	96.8	60.8	49.0	2.2	1.6																							
Architects	4 545	4 186	357	3 807	2 209	148	33	2 786	51	38.1	34.1	97.0	96.1	75.4	66.1	10.5	5.9																							
Engineers	103 291	100 635	2 656	90 917	2 284	2 094	142	2 786	51	38.9	30.7	97.8	97.4	61.6	48.3	1.9	1.1																							
Civil engineers	77 858	77 858	2 000	70 444	1 742	1 487	90	2 235	33	38.9	30.2	98.0	98.2	63.1	50.8	1.6	1.4																							
Electrical and electronic engineers	7 147	7 005	142	6 259	114	1 099	16	249	—	39.1	31.1	97.4	96.5	60.5	43.7	3.3	—																							
Electrical engineers	3 489	3 538	151	3 310	128	121	23	392	—	40.1	32.2	97.0	100.0	38.4	21.9	0.7	—																							
Mechanical engineers	5 531	5 423	108	4 716	82	82	13	104	13	40.1	32.2	97.1	88.0	62.1	51.9	2.4	—																							
Other engineers	2 972	2 874	98	2 625	81	127	8	111	9	35.3	25	91.6	81.6	11.5	5.1	3.5	2.0																							
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																							
Computer systems analysts and scientists	1 500	1 166	334	1 078	307	120	7	50	—	34.6	31.1	97.3	96.4	60.8	56.3	0.9	—																							
Operations and systems researchers and analysts	920	724	196	683	184	10	—	6	—	40.2	30.8	97.5	100.0	56.1	40.3	1.9	—																							
Mathematical scientists	245	173	72	168	67	173	—	10	—	38.8	32.9	100.0	100.0	71.7	41.7	2.9	—																							
Natural scientists	3 094	2 703	391	2 552	333	71	33	51	6	35.3	29.3	96.6	100.0	70.8	76.2	3.0	5.6																							
Chemists, except biochemists	471	394	77	329	71	24	—	10	—	35.3	31.1	98.7	100.0	48.3	31.9	—	—																							
Other natural scientists	2 623	2 309	314	2 223	262	47	33	41	6	51.0	25	77.5	100.0	67.5	—	—	—																							
Health diagnosing occupations	111	80	31	74	13	6	18	—	—	—	—	—	—	—	—	—	—																							
Health assessment and treating occupations	525	175	350	168	305	7	39	—	—	34.1	42.7	96.0	98.3	20.0	32.9	1.1	3.7																							
Registered nurses	326	51	275	51	249	26	26	—	—	33.2	44.1	100.0	100.0	3.9	32.7	—	2.5																							
Other health assessment and treating occupations	199	124	75	117	56	7	13	—	—	35.0	33.2	94.4	92.0	26.6	33.3	1.6	8.0																							
Teachers, except postsecondary	584	501	83	439	68	62	15	—	—	38.3	35.7	87.8	79.5	23.4	27.7	13.6	48.2																							
Social scientists and urban planners	1 365	1 012	353	948	329	45	18	35	—	36.2	31.0	99.3	97.7	81.6	59.8	3.9	1.7																							
Social and recreation workers	1 193	1 043	50	92	144	38	6	16	12	39.5	29.6	97.9	94.0	53.8	40.0	7.0	—																							
Lower and judges	1 214	1 084	130	1 063	130	11	—	20	—	38.2	31.6	100.0	100.0	98.4	95.4	4.2	—																							
Writers, artists, entertainers, and athletes	15 068	10 596	4 472	9 408	4 193	448	88	622	134	36.4	34.8	93.7	94.5	33.1	46.0	11.9	25.2																							
Other professional specialty occupations	589	412	177	358	154	42	11	13	—	36.8	38.1	84.0	100.0	47.3	66.7	5.1	—																							
Technical, sales, and administrative support occupations	530 490	201 564	328 926	187 717	309 986	7 033	10 946	7 243	10 219	36.3	35.6	86.9	88.5	20.2	6.3	5.0	2.7																							
Technicians and related support occupations	99 942	90 432	9 510	83 980	8 549	2 695	604	3 318	327	34.6	29.7	91.1	94.5	20.7	21.6	3.5	1.9																							
Health technologists and technicians	292	194	98	170	90	17	8	15	—	33.5	41.8	89.2	87.8	36.1	15.3	—	—																							
Licensed practical nurses	96	31	65	31	63	2	2	10	—	33.6	40.2	81.5	97.7	12.3	67.7	—	—																							
Other health technologists and technicians	196	163	33	139	27	17	6	5	—	33.4	46.3	93.3	100.0	41.1	21.2	—	—																							
Engineering and science technicians	90 773	83 400	7 373	77 420	6 718	2 323	398	3 010	241	34.7	29.4	91.2	94.1	20.4	19.3	3.6	2.1																							
Electrical and electronic technicians	3 528	3 276	252	2 988	199	130	42	150	3	33.0	30.6	92.2	83.7	11.5	12.3	5.0	6.0																							
Industrial and mechanical technicians	427	383	44	350	36	12	8	6	—	40.1	48.3	83.3	100.0	41.0	19.3	6.8	13.6																							
Drafting and surveying technicians	35 775	31 803	3 972	28 548																																				

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States															
Employed persons 16 years and over—Con.															
Construction, total															
Race			Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
Total		White		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Female
54 913	47 116	7 797	45 695	7 081	747	455	913	233	39.9	86.1	23.7	10.1	10.7	7.7	
5 842	5 452	390	5 278	364	98	13	62	—	39.2	83.4	18.6	12.3	15.1	15.9	
4 931	4 621	310	4 469	290	98	13	44	—	39.6	85.4	19.4	11.3	15.1	15.9	
911	831	80	868	74	—	—	46	—	42.3	85.0	4.0	16.3	99.0	77.5	
41 987	37 517	4 470	36 468	4 174	525	136	797	144	40.2	86.8	23.7	15.3	11.0	11.0	
2 075	2 057	18	2 008	16	24	—	11	7	41.0	98.2	52.5	33.3	2.7	2.7	
4 923	2 033	2 890	1 891	2 496	26	306	82	82	32.6	68.7	9.1	1.8	2.2	1.5	
1 314	480	834	1 15	697	56	115	8	39	31.6	76.0	2.5	3.0	2.3	1.1	
3 609	1 553	2 056	1 467	1 999	40	191	35	43	32.8	72.7	11.2	1.3	2.4	1.7	
86	57	29	50	29	4	—	—	—	31.9	86.0	21.1	—	7.0	—	
375 635	64 016	311 619	58 042	294 356	3 591	9 887	3 012	9 659	36.2	81.6	16.8	5.8	2.8	2.6	
15 525	8 087	7 438	7 513	3 086	314	271	277	155	40.5	83.4	22.2	8.2	2.3	2.9	
1 797	3 795	3 961	1 571	3 397	109	358	112	138	30.7	92.8	16.6	9.6	0.7	0.8	
152 542	2 309	150 233	2 153	142 446	95	4 474	128	4 348	39.5	82.8	21.9	5.4	3.1	1.9	
141 082	1 915	139 167	1 849	133 082	37	3 198	102	4 328	41.1	94.2	23.1	5.5	3.6	1.9	
11 066	394	11 066	304	9 364	58	276	26	438	28.9	75.9	16.0	4.4	0.5	1.2	
8 187	145	8 042	145	7 320	30	431	26	382	32.6	82.7	15.2	4.3	0.8	0.8	
2 780	582	2 198	543	2 058	89	62	101	41.4	42.5	58.6	70.1	3.8	5.0	7.1	
3 102	548	2 554	2 176	2 413	80	257	28	102	29.3	78.3	6.8	4.7	0.9	0.3	
2 885	1 431	1 454	1 319	1 242	88	146	98	65	34.4	78.1	13.3	7.9	4.3	1.2	
93 263	8 364	84 899	7 891	82 094	182	1 279	335	1 878	41.9	88.7	21.8	6.4	4.1	4.6	
10 764	3 034	7 730	2 885	7 406	93	180	81	308	33.5	88.2	14.6	4.8	0.2	0.5	
3 124	853	2 271	816	2 085	8	92	26	40	40.4	88.7	20.6	6.1	1.1	0.8	
1 529	206	1 323	1 173	1 214	29	84	173	16	32.1	67.0	7.8	2.0	—	—	
2 623	1 694	929	1 321	800	174	109	117	27	25.1	65.9	6.7	4.7	1.9	1.4	
7 876	5 833	2 043	5 350	1 820	280	105	208	83	34.2	84.7	23.3	9.7	1.3	2.7	
2 957	2 467	490	1 944	419	399	69	228	35	31.1	71.7	2.6	3.3	0.4	—	
8 106	6 581	1 525	5 810	1 359	580	88	358	81	33.7	69.9	6.5	5.2	0.2	0.3	
4 194	3 054	1 140	2 793	1 073	169	28	104	88	36.9	76.5	7.7	4.9	1.2	2.4	
3 978	3 010	968	2 803	902	155	353	129	25	37.7	88.7	19.3	9.5	13.2	2.1	
4 089	362	3 727	2 62	3 153	70	355	259	37.8	95.2	80.7	16.9	3.6	5.8	0.3	
42 316	13 659	28 657	12 337	26 306	727	1 446	692	1 045	36.1	83.8	18.3	5.8	3.4	3.1	
45 324	35 271	10 053	27 314	6 691	6 054	2 622	2 869	998	39.5	49.3	3.8	2.1	4.4	4.7	
7 870	7 230	640	6 115	446	783	170	358	14	50.2	52.5	6.1	3.0	0.6	0.8	
7 353	6 743	610	5 679	435	766	159	334	14	51.0	50.8	4.9	3.1	0.7	0.8	
30	487	30	11	11	17	—	24	—	42.7	77.0	23.4	—	—	—	
37 454	28 041	9 413	21 199	6 245	5 271	2 452	2 511	984	37.0	48.4	3.2	2.1	5.4	5.0	
1 840	924	916	631	567	247	244	72	48	39.5	51.2	47.6	1.7	6.1	2.0	
398	174	224	143	142	18	98	9	11	34.3	73.2	8.0	7.1	4.6	—	
33 419	25 921	7 498	19 624	5 002	4 803	1 937	2 351	876	36.6	48.0	2.9	1.6	5.4	5.6	
1 797	1 022	775	801	534	203	193	79	49	42.6	53.7	8.1	5.7	5.0	4.0	
9 059	8 685	374	6 802	349	1 229	14	1 007	19	31.3	46.6	3.8	6.4	7.7	9.1	
3 304 702	3 254 107	50 595	2 951 065	43 738	183 925	4 780	187 891	2 795	34.9	66.2	5.6	9.6	21.7	24.7	
181 595	179 823	1 772	1 67 107	1 500	7 468	212	8 021	93	35.0	67.2	2.7	5.6	7.7	7.4	
6 432	6 355	77	6 157	69	93	8	86	—	43.3	71.5	4.2	7.8	2.3	2.3	
16 849	16 730	119	15 293	89	814	23	749	14	35.6	58.1	1.6	—	3.3	10.9	
9 677	9 556	121	9 644	102	351	12	335	15	36.4	62.7	2.7	9.9	8.2	3.3	
3 800	3 717	83	3 450	64	184	19	195	—	32.6	80.0	3.7	15.7	13.2	—	
42 422	42 061	264	39 483	232	1 349	23	2 409	9	32.7	75.1	3.1	5.7	16.4	18.9	
102 512	101 404	1 108	93 760	944	4 677	127	4 407	55	33.8	65.1	2.6	4.8	4.9	5.8	
3 037 683	2 990 446	47 037	2 706 818	40 658	172 599	4 402	176 164	2 610	34.8	66.0	5.8	9.8	23.0	26.1	
646 475	637 706	9 428	597 102	8 436	23 466	706	26 486	402	40.9	72.4	11.7	16.9	22.6	21.3	
897 802	877 706	10 096	809 027	8 571	38 131	1 069	45 761	597	33.2	66.0	5.6	11.0	27.7	24.5	
275 650	272 586	3 064	256 427	2 594	9 250	316	10 255	195	33.8	80.8	4.6	3.6	13.0	10.1	
250 109	238 868	11 241	209 032	9 974	16 406	773	22 477	629	34.6	54.9	5.2	9.8	38.5	37.7	
280 353	277 111	2 242	255 563	2 146	13 680	678	22 477	629	34.6	54.9	5.2	9.8	38.5	37.7	
697 294	686 698	10 596	579 667	8 937	71 466	1 181	56 958	613	32.6	69.5	2.4	5.1	18.3	26.7	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Construction, total															
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female		
	Male	Female	Male	Female	Male	Female										
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con																
Precision production, craft, and repair occupations—Con																
Extraction occupations	3 506	3 451	3 003	55	355	—	199	—	33.5	25	54.7	72.7	3.5	—	7.4	—
Precision production occupations	81 918	80 187	74 137	1 525	3 503	166	3 507	92	36.4	32.9	69.8	71.0	4.4	—	4.8	—
Supervisors, production occupations	18 513	17 989	16 676	462	804	42	763	26	40.6	35.4	69.4	84.2	15.5	—	4.3	—
Precision metalworking occupations	50 777	50 294	46 907	406	1 869	70	2 137	29	34.4	29.5	70.4	65.4	2.9	—	4.4	—
Tool and die makers	359	346	330	13	4	—	—	—	34.1	40.0	78.6	—	4.0	—	8.4	—
Mechanists	4 824	4 752	4 183	58	406	14	537	—	34.0	25	63.3	63.9	2.4	—	2.9	—
Sheet metal workers	36 145	35 849	33 640	264	1 143	32	1 537	—	34.8	28.9	71.2	68.6	3.0	—	5.4	—
Other precision metal workers	9 449	9 347	8 754	71	316	24	281	—	33.2	35.4	70.5	65.7	2.8	—	1.5	—
Precision textile, apparel, and furnishings machine workers	643	621	568	214	24	—	18	—	41.2	45.8	46.1	68.5	3.6	—	9.7	—
Precision food production occupations	630	561	508	41	47	28	21	—	32.9	36.3	57.8	65.2	3.4	—	11.1	—
Precision inspectors, testers, and related workers	1 994	1 897	1 750	87	83	—	47	—	38.9	28.0	79.9	50.5	2.1	—	2.2	—
Plant and system operators	6 903	6 746	5 871	152	551	5	294	37	39.2	29.4	68.4	79.0	7.9	—	6.4	—
Other precision production occupations	2 458	2 279	2 046	163	125	16	227	5	33.0	32.4	65.3	57.0	7.9	—	18.6	—
Operators, fabricators, and laborers	1 320 270	1 286 713	1 048 810	25 723	167 706	5 775	117 453	2 665	33.1	30.3	52.1	60.9	2.4	—	3.2	—
Machine operators, assemblers, and inspectors	151 158	145 289	124 550	4 446	13 055	977	11 784	596	32.8	31.1	60.9	60.9	2.5	—	3.8	—
Machine operators and tenders, except precision	47 845	45 092	36 179	2 155	6 354	411	4 241	291	33.1	31.3	56.7	61.0	3.1	—	3.2	—
Metalworking and plastic working machine operators	4 464	4 295	3 692	114	406	24	378	31	33.5	36.4	56.6	55.6	2.5	—	5.4	—
Fabricating machine operators, n.e.c.	392	374	320	18	17	—	28	15	32.7	29.7	51.1	5.6	2.4	—	9.1	—
Metal and plastic processing and woodworking machine operators	2 639	2 473	2 060	142	227	9	239	25	31.8	30.4	48.1	50.6	2.1	—	7.8	—
Printing machine operators	925	707	563	201	96	17	30	8	31.7	30.6	78.8	84.4	1.4	—	2.8	—
Textile machine operators	354	310	227	33	67	11	12	—	35.5	35.9	51.3	45.5	4.8	—	8.1	—
Textile sewing machine operators	582	405	346	128	51	18	34	—	29.8	40.9	61.2	57.1	1.2	—	6.2	—
Laundry and dry cleaning machine operators	102	102	74	15	28	—	—	—	28.5	—	32.4	—	—	—	33.3	—
Packaging and filling machine operators	177	157	93	20	58	5	45	—	25	—	19.1	25.0	—	—	0.7	—
Furnace, kiln, and oven operators, except food	1 149	1 129	907	16	192	4	72	—	39.7	25	60.9	80.0	2.9	—	5.2	—
Other specified machine operators	9 996	9 343	7 101	546	1 532	65	1 302	50	31.8	29.1	55.2	66.0	3.3	—	5.4	—
Miscellaneous and not specified machine operators	27 065	25 797	20 796	942	3 680	258	2 124	128	33.5	31.5	57.6	58.6	3.3	—	2.6	—
Fabricators, assemblers, and hand working occupations	98 736	96 041	84 648	1 960	6 353	500	7 428	249	32.6	30.9	62.2	59.4	1.9	—	3.9	—
Welders and cutters	86 595	85 497	75 708	849	5 352	174	6 403	79	32.8	29.4	62.3	60.2	1.8	—	3.6	—
Solders and brazers	192	137	101	38	8	9	56	21	28.1	31.8	35.0	40.0	—	—	9.1	—
Assemblers	9 731	8 374	7 108	912	783	303	771	149	29.1	33.0	63.5	56.4	2.9	—	4.2	—
Hand working occupations	2 218	2 033	1 731	161	210	14	198	—	37.6	30.0	56.1	83.2	2.1	—	15.7	—
Production inspectors, testers, samplers, and weighers	4 577	4 156	3 722	331	348	66	115	56	36.5	30.9	76.7	69.8	9.2	—	3.2	—
Graders and sorters, except agricultural	379	330	275	13	40	36	23	—	37.5	32.7	43.3	81.6	3.9	—	10.9	—
Other production inspectors, testers, samplers, and weighers	4 198	3 826	3 448	318	308	30	92	56	36.5	30.7	79.6	68.3	9.7	—	2.5	—
Transportation and material moving occupations	465 228	458 557	400 103	5 404	41 524	896	26 203	383	37.7	31.3	51.0	63.0	1.6	—	7.1	—
Transportation occupations	174 188	170 741	142 246	2 856	22 322	460	10 270	173	37.3	31.4	48.6	62.2	1.4	—	3.4	—
Motor vehicle operators	168 730	165 388	137 362	2 773	22 007	453	10 142	164	37.2	31.3	48.2	61.8	1.3	—	3.4	—
Truck drivers	165 055	161 947	134 712	2 562	21 419	430	9 775	147	37.2	31.3	48.3	61.6	1.3	—	3.4	—
Driver-sales workers	442	419	350	23	64	—	23	—	32.0	25	54.4	52.2	6.4	—	39.1	—
Other motor vehicle operators	3 233	3 022	2 300	188	524	23	344	6	37.7	33.8	45.3	65.9	2.0	—	8.1	—
Rail and water transportation occupations	5 458	5 353	4 884	83	315	9	1 288	9	39.5	30.4	60.2	72.4	5.9	—	3.0	—
Rail and water transportation occupations	291 040	287 816	257 857	2 548	19 202	436	15 933	210	38.0	31.2	52.4	64.0	1.6	—	9.3	—
Material moving equipment operators	2 268	2 205	2 099	63	38	—	117	—	39.2	36.0	68.8	71.4	9.3	—	27.2	—
Supervisors, material moving equipment operators	25 662	25 467	23 334	169	1 499	16	943	—	39.2	37.2	53.6	57.9	2.2	—	3.1	—
Crane, hoist and winch operators	86 769	85 810	78 601	853	4 712	55	4 045	48	38.9	37.7	47.1	60.8	1.5	—	2.2	—
Excavating, grading, and dozer machine operators	176 341	174 334	153 823	1 463	12 953	365	10 828	162	37.3	29.8	54.6	65.9	1.6	—	17.6	—
Other material moving equipment operators	703 884	682 867	524 157	15 873	113 127	3 902	79 466	1 686	30.3	29.8	50.9	60.2	2.9	—	0.3	—
Handlers, equipment cleaners, helpers, and laborers	677	654	597	16	50	—	14	—	42.2	48.6	60.9	100.0	14.5	—	7.6	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	87 278	84 506	69 605	2 288	9 380	299	10 077	208	25	28.4	53.1	61.1	3.1	—	1.9	—
Helpers, craft and production	604 312	586 841	445 458	12 961	101 804	3 484	48 578	1 400	31.3	30.0	50.6	60.3	3.0	—	4.3	—
Construction laborers	7 576	7 319	5 610	232	1 427	19	440	10	27.4	30.9	47.2	66.9	1.2	—	2.1	—
Freight, stock, and material handlers	2 972	2 813	2 308	121	357	38	243	10	33.4	30.2	45.8	55.3	2.0	—	4.4	—
Garage and service station occupations, and equipment cleaners	1 069	734	579	255	109	55	114	—	29.3	32.9	46.6	43.6	2.3	—	2.3	—
Hand packers and packagers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Laborers, except construction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Construction, government workers																	
	Race						Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White		Black													
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over	496 967	456 936	40 031	392 125	32 817	46 557	5 491	22 944	1 754	42.0	34.5	59.9	86.3	8.5	8.6	—	—	—
Managerial and professional specialty occupations	79 869	74 189	5 680	68 838	4 833	2 571	562	2 035	150	44.0	36.6	87.5	95.5	36.2	29.9	—	—	—
Executive, administrative, and managerial occupations	41 368	37 747	3 621	35 055	3 041	1 717	432	1 036	98	46.6	40.1	77.7	94.7	16.7	16.8	—	—	—
Officials and administrators, public administration	10 554	10 332	222	9 749	204	389	18	226	6	48.7	40.7	60.8	92.3	7.3	13.1	—	—	—
Financial managers	213	186	27	170	27	13	—	3	—	48.6	50.0	100.0	100.0	75.8	22.2	—	—	—
Managers, marketing, advertising, and public relations	54	54	—	54	—	—	—	—	—	39.7	—	74.1	—	14.8	—	—	—	—
Administrators, education and related fields	70	60	10	52	10	8	—	—	—	41.8	25	100.0	100.0	76.7	100.0	—	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	1 883	1 500	383	1 402	282	58	66	62	3	46.5	39.9	93.5	97.9	44.6	23.0	—	—	—
Managers and administrators, n.e.c.	9 543	8 601	942	7 769	810	597	105	267	26	46.7	41.7	77.2	93.3	26.1	16.6	—	—	—
Salaries	9 543	8 601	942	7 769	810	597	105	267	26	46.7	41.7	77.2	93.3	26.1	16.6	—	—	—
Self-employed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Management related occupations	19 051	17 014	2 037	15 859	1 708	652	243	478	63	44.1	38.8	86.5	94.9	14.4	15.8	—	—	—
Accountants and auditors	2 238	1 993	245	1 377	822	32	52	72	19	39.9	42.8	94.5	96.0	52.5	19.3	—	—	—
Personnel, training, and labor relations specialists	1 383	986	397	895	326	76	52	895	31	47.8	38.9	76.6	93.7	20.8	15.9	—	—	—
Buyers and purchasing agents	722	497	225	478	169	12	32	14	—	49.2	38.3	88.5	96.4	11.5	4.9	—	—	—
Inspectors and compliance officers	14 178	13 827	351	12 895	302	527	47	338	—	44.0	30.5	86.2	92.0	9.3	9.4	—	—	—
Other management related occupations	530	411	119	394	89	5	30	4	13	43.0	35.4	93.4	95.8	52.3	26.9	—	—	—
Professional specialty occupations	38 501	36 442	2 059	33 783	1 792	854	130	999	52	41.4	32.1	97.7	97.0	56.3	52.8	—	—	—
Engineers, architects, and surveyors	33 062	32 068	994	29 736	880	640	39	896	19	42.1	31.3	97.8	96.6	55.7	42.3	—	—	—
Architects	771	673	98	611	63	22	15	43	6	43.3	32.2	98.2	91.8	88.4	68.4	—	—	—
Engineers	30 713	29 879	834	27 761	772	547	16	812	4	42.4	31.5	98.0	97.2	57.4	41.7	—	—	—
Civil engineers	27 345	26 675	670	24 773	623	487	6	730	4	42.3	31.2	98.2	98.1	58.2	43.3	—	—	—
Electrical and electronic engineers	842	822	70	778	15	30	10	30	—	43.8	31.7	95.3	73.7	25.0	25.0	—	—	—
Industrial engineers	437	410	27	397	17	9	—	387	—	42.9	34.0	94.6	100.0	35.1	77.8	—	—	—
Mechanical engineers	534	534	—	534	—	—	—	—	—	43.2	—	97.0	—	70.0	—	—	—	—
Other engineers	1 555	1 438	117	1 363	117	21	—	33	—	42.3	33.0	96.4	95.7	34.5	27.4	—	—	—
Surveyors and mapping scientists	1 578	1 516	62	1 366	45	71	8	9	—	35.6	25	93.5	95.2	9.0	8.1	—	—	—
Computer systems analysts and scientists	345	260	85	249	78	9	7	4	—	36.0	32.4	100.0	100.0	58.8	57.6	—	—	—
Operations and systems researchers and analysts	178	130	48	122	42	8	—	—	—	49.3	37.5	96.2	100.0	36.9	39.6	—	—	—
Mathematical scientists	1 843	1 605	238	1 516	185	47	28	18	6	38.4	34.6	100.0	100.0	67.3	73.6	—	—	—
Natural scientists	1 671	1 451	220	1 379	173	40	28	13	6	33.2	29.5	96.8	100.0	82.5	100.0	—	—	—
Chemists, except biochemists	1 172	1 041	131	1 041	131	—	—	—	—	38.1	32.5	98.3	100.0	75.9	75.6	—	—	—
Other natural scientists	1 671	1 451	220	1 379	173	40	28	13	6	33.2	29.5	96.8	100.0	82.5	100.0	—	—	—
Health diagnosing occupations	14	14	—	14	—	—	—	—	—	55.0	—	100.0	—	85.7	—	—	—	—
Health assessment and treating occupations	69	17	52	10	40	7	12	—	—	27.5	49.7	58.8	100.0	—	88.5	—	—	—
Registered nurses	42	2	40	2	34	6	6	—	—	40.0	51.9	100.0	100.0	—	100.0	—	—	—
Other health assessment and treating occupations	27	15	12	8	6	7	—	—	—	25.8	40.0	53.3	100.0	—	50.0	—	—	—
Teachers, except postsecondary	133	116	17	96	7	20	10	—	—	35.0	36.5	92.2	100.0	18.1	58.8	—	—	—
Social scientists and urban planners	406	323	83	292	80	12	3	18	—	32.8	36.5	100.0	100.0	96.3	75.9	—	—	—
Lawyers and judges	84	58	26	37	20	21	6	—	—	33.6	33.7	94.8	100.0	63.5	57.7	—	—	—
Writers, artists, entertainers, and athletes	334	251	83	251	83	—	—	7	—	38.9	33.0	100.0	100.0	96.4	92.8	—	—	—
Other professional specialty occupations	1 681	1 339	342	1 230	303	74	23	48	15	40.7	33.8	95.1	95.6	31.6	46.5	—	—	—
Technical, sales, and administrative support occupations	207	180	47	132	33	16	2	5	—	33.1	46.0	91.3	100.0	62.5	68.1	—	—	—
Technicians, sales, and administrative support occupations	53 757	27 981	25 776	25 231	22 320	1 623	2 587	1 154	933	38.9	35.6	88.1	92.0	13.6	5.5	—	—	—
Technicians and related support occupations	19 565	17 211	2 354	15 615	2 069	846	216	719	92	36.3	30.6	92.4	95.9	13.5	15.9	—	—	—
Health technologists and technicians	48	30	18	30	12	—	—	5	—	33.3	47.5	100.0	100.0	93.3	33.3	—	—	—
Licensed practical nurses	3	3	—	3	—	—	—	—	—	30.0	—	100.0	—	100.0	—	—	—	—
Other health technologists and technicians	45	27	18	27	12	—	—	5	—	34.0	47.5	100.0	100.0	92.6	33.3	—	—	—
Engineering and science technicians	17 300	15 543	1 757	14 126	1 545	727	159	654	63	36.2	30.2	93.2	96.2	12.4	13.8	—	—	—
Electrical and electronic technicians	467	414	53	377	39	17	14	11	—	39.0	47.4	95.2	98.1	16.4	—	—	—	—
Industrial and mechanical engineering technicians	83	55	28	35	8	6	—	—	—	48.1	55.0	70.9	100.0	38.2	—	—	—	—
Drafting and surveying technicians	9 381	8 433	948	7 681	852	385	54	384	43	40.1	30.4	92.1	95.6	7.4	11.7	—	—	—
Other engineering and science technicians	7 369	6 641	728	6 033	634	319	83	259	20	38.5	28.9	94.7	96.8	18.2	18.0	—	—	—
Technicians, except health, engineering, and science	2 217	1 638	579	1 459	512	119	51	60	29	37.9	31.7	85.0	94.6	23.1	21.8	—	—	—
Airplane pilots and navigators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Air traffic controllers and broadcast equipment operators	509	352	157	337	134	6	23	2	—	43.7	32.4	61.4	80.3	4.0	3.8	—	—	—
Computer programmers	486	382	104	354	74	26	19	5	12	33.1	32.5	97.4	100.0	50.3	31.7	—	—	—
Other technicians, except health, engineering, and science	1 222	904	318	768	304	87	9	53	17	38.8	31.0	88.9	100.0	19.1	27.4	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States												
Construction, government workers												
Both sexes	Race				Block		Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.	Total		Male	Female	Male	Female	Male	Female	Male	Female	Percent completed 4 or more years of college	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.												
Sales occupations	634	452	424	145	37	10	9	41.9	73.7	89.6	10.0	—
Supervisors and proprietors, sales occupations	90	90	85	—	—	—	—	—	88.9	—	16.7	—
Salaried	90	—	85	—	—	—	—	—	88.9	—	16.7	—
Self-employed	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, finance and business services	191	135	132	49	7	—	—	46.9	69.6	100.0	5.9	—
Sales representatives, commodities, except retail	—	—	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services	341	215	195	96	30	10	9	38.7	68.4	84.9	4.7	—
Cashiers	170	54	43	86	30	10	9	38.0	52.1	83.6	9.3	—
Other sales occupations, retail and personal services	171	161	152	10	—	—	—	40.0	70.8	100.0	3.1	—
Sales related occupations	12	12	12	—	—	—	—	30.0	100.0	—	100.0	—
Administrative support occupations, including clerical	33 558	10 318	9 192	20 106	763	831	426	43.3	81.5	91.6	13.8	4.5
Supervisors, administrative support occupations	2 370	1 540	1 379	58	27	27	36	45.7	82.5	94.9	18.1	5.3
Computer equipment operators	520	240	213	730	25	12	12	38.9	97.5	91.8	29.6	1.8
Secretaries, stenographers, and typists	12 559	267	209	10 704	40	487	12	32.0	68.5	92.7	7.1	4.4
Secretaries	8 001	103	89	7 122	14	344	12	34.4	66.0	93.1	1.9	3.8
Stenographers and typists	4 558	164	120	3 582	26	676	12	37.9	70.1	92.1	10.4	5.5
Receptionists	384	33	33	278	—	—	—	33.7	100.0	73.5	15.2	4.6
Other information clerks	231	153	139	62	14	16	4	40.5	77.8	71.8	34.6	—
File clerks	476	109	68	277	41	37	32	34.6	75.2	90.2	5.5	7.1
Other records processing occupations, except financial	460	187	178	273	7	7	—	45.7	59.9	91.6	10.7	6.2
Bookkeepers, accounting, and auditing clerks	3 021	818	769	2 012	21	160	22	45.3	81.4	94.5	22.1	3.3
Payroll and timekeeping clerks	1 379	628	586	751	83	21	21	39.5	79.1	92.0	7.8	1.2
Other financial records processing occupations	188	123	65	111	5	8	—	46.7	87.7	100.0	18.5	7.3
Telephone operators	149	38	38	120	5	—	—	32.3	60.5	82.4	23.7	—
Mail and message distributing occupations	303	176	123	90	53	37	4	40.0	72.7	57.5	19.3	3.9
Production coordinators and expeditors	763	565	505	173	18	21	23	42.2	82.3	65.7	18.8	1.0
Traffic, shipping, and receiving clerks	241	191	114	44	77	6	7	35.2	86.0	86.0	12.6	14.0
Stock and inventory clerks	2 000	1 605	1 423	326	123	26	17	44.8	81.2	90.4	5.6	2.8
Other material recording, scheduling, and distributing clerks	973	130	843	126	54	10	10	41.8	77.1	78.5	7.5	10.8
Adjudicators and investigators	290	203	178	67	19	—	—	43.5	91.6	95.4	29.6	—
Date-entry keyers	755	43	35	634	44	—	—	39.3	100.0	94.8	27.9	1.5
Other administrative support occupations	6 476	2 614	2 363	3 241	125	478	155	43.2	86.7	90.4	12.5	6.6
Service occupations	10 912	9 744	7 409	571	1 804	487	644	44.6	49.3	51.9	2.9	2.0
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	2 407	2 310	1 982	53	254	36	53	51.0	51.3	80.4	7.3	—
Guards	2 197	2 118	1 800	47	244	32	53	51.6	48.7	75.9	4.1	—
Other protective service occupations	210	192	182	6	10	4	—	25	79.7	100.0	43.2	—
Service occupations, except protective and household	8 505	7 434	5 427	518	1 550	451	591	42.3	48.6	49.3	1.6	2.1
Food preparation and service occupation	220	109	51	65	48	39	32	51.1	38.0	52.3	4.6	6.3
Health service occupations	98	31	20	18	7	4	—	52.5	64.5	56.7	—	7.5
Cleaning and building service occupations, except household	7 786	7 012	5 126	388	1 447	319	545	42.3	48.9	45.9	1.1	1.3
Personal service occupations	401	282	230	47	48	—	14	32.4	48.9	64.7	12.1	0.8
Farming, forestry, and fishing occupations	3 336	3 209	2 448	112	600	9	255	36.7	49.3	64.6	2.8	8.7
Precision production, craft, and repair occupations	137 476	134 522	114 915	2 015	14 018	754	7 018	43.1	58.8	64.8	3.9	5.4
Mechanics and repairers	21 703	21 487	19 490	216	1 538	55	13	41.3	58.6	70.8	1.6	2.8
Supervisors, mechanics and repairers	5 443	1 049	493	30	39	—	—	49.4	62.9	—	1.0	—
Automobile mechanics, including body	1 345	1 335	1 258	10	302	17	166	25	57.2	95.7	1.4	—
Industrial machinery repairers	—	—	—	—	55	—	72	45.5	52.7	100.0	1.0	—
Electronic repairers, communications and industrial equipment	361	356	324	5	19	—	—	41.3	89.6	100.0	5.3	—
Heating, air conditioning, and refrigeration mechanics	12 770	735	20	555	20	138	52	41.1	64.9	50.0	1.7	—
Other mechanics and repairers	—	—	—	—	96	38	407	29.8	58.2	61.9	1.7	4.5
Construction trades	109 425	106 884	89 920	1 689	12 010	667	6 108	43.4	58.1	63.7	4.3	5.0
Supervisors, construction occupations	45 634	44 914	41 179	561	2 556	129	1 822	48.3	62.1	76.9	7.4	12.8
Carpenters	15 129	14 511	10 770	380	2 299	187	1 773	35.2	52.0	59.2	2.7	3.9
Electricians	6 010	5 915	5 068	41	549	37	251	38.3	76.6	73.7	4.5	4.2
Painters, construction and maintenance	6 253	5 890	363	195	995	138	474	39.3	47.3	47.4	1.6	—
Plumbers, pipefitters, and steamfitters	4 930	4 879	3 713	15	892	26	392	38.8	57.5	82.4	2.2	9.8
Other construction trades	31 469	30 775	24 716	497	4 719	150	1 799	38.0	53.8	59.7	1.6	0.3

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Construction, government workers												
United States												
	Race				Black		Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Male		Male		Male		Male	
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Employed persons 16 years and over—Con.												
Precision production, craft, and repair occupations—Con.												
Extractions occupations	227	227	—	211	—	9	—	15	39.7	73.6	—	—
Precision production occupations	6 121	5 924	197	5 294	165	461	32	185	44.2	71.4	—	—
Supervisors, production occupations	1 978	1 913	65	1 737	59	129	6	79	48.6	65.7	—	—
Precision metalworking occupations	1 511	1 474	37	1 282	22	141	15	71	39.9	66.4	—	—
Tool and die makers	—	—	—	—	—	—	—	—	—	—	—	—
Machinists	587	565	22	515	14	39	8	14	44.2	61.4	—	—
Sheet metal workers	551	536	15	437	8	65	7	44	39.1	65.5	—	—
Other precision metal workers	373	373	—	330	—	37	—	13	35.4	75.1	—	—
Precision textile, apparel, and furnishings machine workers	88	88	—	88	—	—	—	—	48.8	36.4	—	—
Precision food production occupations	45	39	6	32	—	7	6	—	25	61.5	—	—
Precision inspectors, testers, and related workers	969	930	39	874	34	44	5	15	40.7	88.1	—	—
Plant and system operators	1 465	1 424	41	1 229	41	140	5	10	42.9	76.8	—	—
Other precision production occupations	65	56	9	52	9	—	—	10	44.3	46.4	—	—
Operators, fabricators, and laborers	211 617	207 291	4 326	173 284	2 966	25 941	1 092	11 838	39.7	47.7	—	—
Machine operators, assemblers, and inspectors	10 234	9 658	576	7 944	381	1 374	148	244	40.7	64.4	—	—
Machine operators and tenders, except precision	4 478	4 221	257	3 318	205	775	41	280	38.7	60.4	—	—
Metalworking and plastic working machine operators	176	152	24	97	24	50	—	11	30.3	53.8	—	—
Fabricating machine operators, n.e.c.	22	22	—	15	—	7	—	—	41.7	100.0	—	—
Metal and plastic processing and woodworking machine operators	103	103	—	52	—	42	—	9	37.7	—	—	—
Printing machine operators	221	177	44	153	32	12	—	8	40.6	85.9	—	—
Textile machine operators	11	11	—	11	—	—	—	—	30.0	100.0	—	—
Textile sewing machine operators	44	44	—	44	—	—	—	—	37.1	36.4	—	—
Laundry and dry cleaning machine operators	—	—	—	—	—	—	—	—	—	—	—	—
Packaging and filling machine operators	7	7	—	—	—	2	—	—	—	—	—	—
Furnace, kiln, and oven operators, except food	301	301	—	226	—	57	—	26	48.0	71.4	—	—
Other specified machine operators	675	588	87	443	75	123	7	82	43.6	68.1	—	—
Miscellaneous and not specified machine operators	2 918	2 816	102	2 272	74	470	22	152	38.4	59.9	—	—
Fabricators, assemblers, and hand working occupations	4 390	4 146	244	3 438	110	514	98	263	39.8	59.6	—	—
Welders and cutters	3 272	3 168	104	2 668	41	372	37	169	36.7	68.9	—	—
Solders and brazers	13	5	8	5	8	—	—	—	35.9	61.4	—	—
Assemblers	495	394	101	278	43	80	58	52	25	25.0	—	—
Hand working occupations	610	579	31	487	18	62	3	42	38.3	52.3	—	—
Production inspectors, testers, samplers, and weighers	1 366	1 291	75	1 188	66	85	9	14	42.2	55.4	—	—
Graders and sorters, except agricultural	30	30	—	30	—	—	—	—	27.2	74.2	—	—
Other production inspectors, testers, samplers, and weighers	1 336	1 261	75	1 158	66	85	9	14	41.2	84.4	—	—
Transportation and material moving occupations	110 853	109 695	1 158	96 542	918	9 541	177	5 206	57.9	85.2	—	—
Transportation occupations	49 861	49 188	673	42 075	539	5 721	117	2 134	43.0	46.3	—	—
Motor vehicle operators	47 967	47 332	635	40 441	514	5 221	117	2 084	30.8	43.0	—	—
Truck drivers	47 023	46 430	593	39 683	477	5 437	105	2 041	42.4	44.6	—	—
Driver-sales workers	8	8	—	8	—	—	—	6	31.0	44.1	—	—
Other motor vehicle operators	936	894	42	750	37	109	5	37	30.8	44.0	—	—
Rail and water transportation occupations	1 894	1 856	38	1 634	25	175	7	50	48.3	75.0	—	—
Material moving equipment operators	60 992	60 507	485	54 467	379	3 820	60	3 072	42.5	48.0	—	—
Supervisors, material moving equipment operators	126	126	—	117	—	3	—	31	33.0	40.0	—	—
Crane, hoist, and winch operators	1 233	1 225	8	1 041	3	153	7	11	43.4	59.4	—	—
Excavating, grading, and dozer machine operators	18 094	17 950	144	16 681	135	821	5	72	41.2	84.1	—	—
Other material moving equipment operators	41 539	41 206	333	36 628	241	2 839	53	2 230	40.0	44.5	—	—
Handlers, equipment cleaners, helpers, and laborers	90 530	87 938	2 592	68 798	1 667	15 026	767	6 075	32.1	51.0	—	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	109	109	—	102	—	—	—	14	37.5	47.9	—	—
Helpers, craft and production	2 717	2 529	188	1 741	127	493	45	283	28.5	42.2	—	—
Construction laborers	86 010	83 648	2 362	65 708	1 516	14 172	704	5 716	26.2	54.1	—	—
Freight, stock, and material handlers	986	968	18	682	12	267	6	20	28.7	47.9	—	—
Garage and service station occupations, and equipment cleaners	658	646	12	527	12	94	—	35	34.6	66.7	—	—
Hand packers and packagers	50	38	12	38	—	—	—	7	25	43.0	—	—
Laborers, except construction	—	—	—	—	—	—	—	—	37.5	13.2	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Construction, self-employed workers																	
Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed					
Total		White		Black		Male		Female		Male		Female		Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
851 733	825 546	26 187	775 464	24 993	32 668	597	30 807	689	40.3	39.7	78.3	8.6	13.2	100.0	100.0	100.0	
70 583	66 929	3 654	63 859	3 502	1 852	50	2 120	114	41.3	41.9	87.3	15.6	26.5	100.0	100.0	100.0	
65 384	62 990	2 394	60 081	2 266	1 792	49	2 000	90	44.1	44.1	83.6	13.3	17.6	100.0	100.0	100.0	
6	6	—	6	—	—	—	—	—	50.0	—	—	—	—	—	—	—	
81	81	17	67	17	7	—	5	—	32.7	—	—	—	—	—	—	—	
473	456	17	448	17	8	—	—	—	38.1	—	—	—	—	—	—	—	
64	52	12	45	12	—	—	—	—	32.4	60.0	100.0	30.8	29.4	100.0	100.0	100.0	
1 289	98	87	1 387	87	23	5	63	—	41.7	51.4	91.8	17.6	7.1	100.0	100.0	100.0	
59 840	2 088	—	57 077	1 976	1 736	44	1 897	90	41.0	43.9	82.5	12.7	16.6	100.0	100.0	100.0	
61 928	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
61 928	59 840	2 088	57 077	1 976	1 736	44	1 897	90	41.0	43.9	82.5	12.7	16.6	100.0	100.0	100.0	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—				

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States												
Employed persons 16 years and over—Con.												
Technical, sales, and administrative support occupations—Con.	Construction, self-employed workers											
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
	Total		White		Black		Male		Male		Male	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
5 649	5 051	598	4 923	584	40	—	44.8	43.1	80.3	79.4	18.5	13.2
885	823	62	801	56	—	—	42.2	43.6	72.9	80.6	14.1	21.0
885	823	62	801	56	—	—	42.2	43.6	72.9	80.6	14.1	21.0
4 615	4 123	492	4 023	492	40	—	45.4	42.4	81.5	78.9	18.8	13.4
56	56	—	—	—	—	—	51.4	—	94.6	—	46.4	—
16	45	4	36	—	—	—	33.7	48.2	84.4	84.1	33.3	—
73	38	35	38	27	—	—	60.0	46.0	100.0	44.4	—	—
4	4	—	4	—	—	—	52.0	48.8	100.0	94.3	39.5	—
9 900	1 779	8 121	1 691	7 867	57	152	42.6	42.8	73.2	78.6	17.6	5.3
404	190	214	167	200	12	14	44.8	43.0	71.6	81.8	11.1	—
12	12	—	12	—	—	—	30.0	—	100.0	—	—	—
2 791	71	2 720	2 633	47	—	—	45.3	41.4	74.6	77.9	2.8	4.6
2 656	69	2 587	2 500	87	—	—	45.3	41.4	74.6	77.9	2.8	4.6
135	2	133	2	133	—	—	65+	43.3	100.0	88.7	100.0	4.5
61	—	61	—	—	—	—	—	—	—	—	—	—
185	29	156	29	156	—	—	60.0	51.0	72.4	49.4	—	—
12	5	7	5	7	—	—	52.9	50.0	100.0	100.0	—	—
79	61	18	61	18	—	—	—	34.0	80.3	66.7	13.1	33.3
4 211	345	3 866	331	3 733	7	71	45.1	42.5	77.7	82.2	18.8	6.4
49	7	42	7	42	—	—	65+	40.3	—	100.0	—	2.4
19	9	10	9	10	—	—	65+	30.0	33.3	100.0	—	—
10	10	—	—	—	—	—	55.0	—	—	50.0	—	—
46	33	13	33	13	—	—	38.0	50.0	57.6	53.8	—	38.5
133	78	55	78	55	—	—	46.7	42.9	93.6	72.7	46.2	32.7
10	10	—	—	—	8	—	31.3	—	100.0	—	—	—
15	10	5	10	5	—	—	25—	40.0	70.0	100.0	—	—
64	37	27	30	27	—	—	40.5	56.6	5.4	40.7	5.4	—
416	396	20	382	20	8	—	35.8	30.7	77.8	100.0	24.2	—
33	21	12	21	12	—	—	60.0	39.0	100.0	39.0	33.3	—
1 350	465	885	443	871	22	14	41.9	47.0	67.7	70.7	16.3	3.7
2 030	1 554	476	1 325	429	180	38	44.0	37.6	63.1	62.0	6.2	2.9
50	45	5	45	5	—	—	42.7	65+	51.1	100.0	—	—
50	45	5	45	5	—	—	42.7	65+	51.1	100.0	—	—
1 980	1 509	471	1 280	424	180	38	44.0	37.4	63.4	61.6	6.4	3.0
74	56	18	25	18	31	—	57.7	58.1	41.1	33.3	—	—
8	8	—	8	—	—	—	31.7	—	100.0	—	75.0	—
1 816	1 394	422	1 215	375	130	38	44.1	36.1	63.6	65.6	6.2	3.3
82	51	31	32	31	19	—	42.2	40.7	78.4	22.6	7.8	—
702	668	34	530	34	72	—	38.0	38.3	52.2	47.1	11.8	—
717 935	705 456	12 479	661 154	11 809	29 103	334	40.1	37.2	66.0	76.5	8.1	15.0
14 019	13 888	131	13 248	124	431	—	42.5	41.4	69.1	76.3	5.3	9.9
148	148	—	148	—	—	—	40.3	45.7	85.8	53.8	6.8	—
563	550	13	474	13	69	—	40.3	45.7	57.1	53.8	2.9	—
790	786	4	786	4	22	—	43.2	55.0	68.2	50.0	3.3	—
492	492	—	479	—	7	—	39.0	—	84.6	—	7.7	—
6 953	6 903	50	6 677	43	141	—	43.1	41.3	71.6	54.0	4.7	14.0
5 073	5 009	64	4 706	64	192	—	42.3	40.6	64.9	100.0	6.4	9.4
699 718	687 464	12 254	643 952	11 591	28 572	334	40.0	37.1	66.0	76.5	8.2	15.1
146 286	144 277	2 009	136 947	1 868	4 338	59	41.1	41.0	73.9	79.2	13.7	24.4
245 650	243 175	2 475	231 271	2 339	7 791	95	38.6	32.7	67.1	79.6	8.3	18.8
35 651	35 342	309	33 679	280	1 014	14	42.9	42.1	76.1	63.4	6.8	2.9
96 202	91 960	4 242	83 775	4 007	5 082	117	40.6	37.5	58.9	76.5	7.7	13.7
47 763	47 368	395	44 218	361	2 129	21	44.7	47.3	61.9	62.5	4.0	9.6
128 166	125 342	2 824	114 062	2 736	8 158	28	38.1	36.9	58.6	75.4	3.8	9.4

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States											
Construction, self-employed workers											
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent self-employed
	White		Black								
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	
Precision production, craft, and repair occupations—Con											
Extractive occupations	255	255	—	14	—	—	40.6	60.4	—	11.4	100.0
Precision production occupations	3 943	3 849	94	86	—	107	42.4	66.3	69.1	5.7	100.0
Supervisors, production occupations	792	777	15	36	—	28	43.9	66.9	100.0	8.4	100.0
Precision metalworking occupations	2 230	2 230	20	24	—	64	42.0	55.2	—	2.3	100.0
Tool and die makers	29	29	—	—	—	—	45.8	65.7	—	—	100.0
Mechanics	145	137	8	—	—	9	43.8	60.0	—	—	100.0
Sheet metal workers	1 929	1 924	5	24	—	41	43.8	65.7	—	—	100.0
Other precision metal workers	147	140	7	—	—	14	50.0	78.6	—	—	100.0
Precision textile, apparel, and furnishings machine workers	58	41	17	—	—	—	39.3	64.8	—	—	100.0
Precision food production occupations	62	62	—	—	—	—	46.6	41.5	100.0	4.9	100.0
Precision inspectors, testers, and related workers	42	42	—	—	—	—	35.4	48.4	—	—	100.0
Plant and system operators	288	274	14	12	—	15	39.5	45.2	—	—	100.0
Other precision production occupations	451	423	28	14	—	—	43.7	72.6	100.0	12.0	100.0
							41.2	72.3	67.9	32.1	100.0
Operators, fabricators, and laborers	41 542	40 900	642	1 334	8	1 559	41.0	57.0	69.6	3.4	100.0
Machine operators, assemblers, and inspectors	6 483	6 312	171	222	9	356	39.1	59.4	81.9	5.8	100.0
Machine operators and tenders, except precision	2 489	2 412	77	126	9	158	40.2	57.3	81.8	8.0	100.0
Metalworking and plastic working machine operators	232	232	—	8	—	20	43.6	47.8	—	3.9	100.0
Fabricating machine operators, n.e.c.	34	34	—	—	—	6	36.1	58.8	—	—	100.0
Metal and plastic processing and woodworking machine operators	205	192	13	23	—	4	40.4	53.1	69.2	—	100.0
Printing machine operators	20	20	—	5	—	—	36.7	60.0	—	—	100.0
Textile machine operators	27	25	2	—	—	—	55.8	88.0	100.0	60.0	100.0
Textile sewing machine operators	37	37	—	—	—	—	39.7	20.0	75.0	—	100.0
Laundry and dry cleaning machine operators	34	34	—	—	—	—	30.7	76.5	—	—	100.0
Packaging and filling machine operators	8	8	—	—	—	—	—	—	—	—	100.0
Food, kind, and oven operators, except food	517	486	31	43	—	32	40.5	54.3	77.4	9.1	100.0
Other specified machine operators	1 375	1 356	19	47	—	100	40.0	59.8	100.0	9.2	100.0
Miscellaneous and not specified machine operators											
Fabricators, assemblers, and hand working occupations	3 857	3 769	88	96	—	198	38.3	60.7	80.7	4.0	100.0
Welders and cutters	3 093	3 067	26	79	—	165	37.6	60.9	80.8	3.8	100.0
Solders and brazers	5	5	—	—	—	—	—	—	—	—	100.0
Assemblers	381	350	31	17	—	23	37.4	61.7	83.9	7.1	100.0
Hand working occupations	378	352	26	—	—	10	47.0	58.0	73.1	2.0	100.0
Production inspectors, testers, samplers, and weighers	137	131	6	—	—	—	40.0	61.8	100.0	15.4	100.0
Grocers and sorters, except agricultural	36	36	—	—	—	—	43.6	22.2	—	16.7	100.0
Other production inspectors, testers, samplers, and weighers	101	95	6	—	—	—	34.9	76.8	100.0	16.8	100.0
Transportation and material moving occupations	32 834	32 610	224	913	8	989	41.8	56.8	81.3	2.8	100.0
Transportation occupations	5 938	5 831	107	434	2	387	41.2	52.8	85.0	3.1	100.0
Motor vehicle operators	5 768	5 648	100	425	2	387	41.2	52.5	84.0	2.8	100.0
Truck drivers	5 631	5 544	87	425	2	377	41.3	52.5	81.6	2.9	100.0
Driver-sales workers	34	34	—	—	—	5	41.9	47.1	—	—	100.0
Other motor vehicle operators	103	90	13	—	—	—	34.5	55.6	100.0	—	100.0
Rail and water transportation occupations	170	163	7	9	—	—	37.8	63.8	100.0	12.3	100.0
Material moving equipment operators	26 896	26 779	117	479	6	602	41.9	57.7	100.0	2.7	100.0
Supervisors, material moving equipment operators	602	599	3	20	—	—	46.0	44.2	100.0	8.0	100.0
Crane, hoist and winch operators	567	561	6	—	—	31	46.1	52.9	66.7	6.0	100.0
Excavating, grading, and dozer machine operators	15 134	15 065	69	247	—	247	42.3	55.7	81.2	2.2	100.0
Other material moving equipment operators	10 593	10 554	39	212	6	303	41.0	61.4	71.8	20.3	100.0
Handlers, equipment cleaners, helpers, and laborers	2 225	1 978	247	199	—	214	31.1	52.4	50.6	6.2	100.0
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	50	50	—	—	—	—	44.4	82.0	—	20.0	100.0
Helpers, craft and production	1 865	1 632	233	180	—	198	29.6	49.7	52.8	5.3	100.0
Construction laborers	—	—	—	—	—	—	—	—	—	—	—
Freight, stock, and material handlers	165	155	10	19	—	16	32.1	61.3	20.0	5.2	100.0
Garage and service station occupations, and equipment cleaners	128	124	4	—	—	—	40.9	63.7	—	13.7	100.0
Hand packers and packagers	17	17	—	—	—	—	32.5	64.7	—	11.8	100.0
Laborers, except construction	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Manufacturing, total											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	Total			White			Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over	21 914 754	14 918 949	6 995 805	12 923 106	5 781 947	1 353 425	810 178	552 982	37.1	35.9	71.6	66.3
Managerial and professional specialty occupations	3 181 630	2 531 998	549 632	2 493 048	504 329	59 970	26 026	18 090	41.3	34.4	94.8	93.1
Executive, administrative, and managerial occupations	1 893 173	1 662 017	331 156	1 497 178	304 131	33 392	15 815	11 879	42.8	35.9	92.8	92.2
Officials and administrators, public administration	114	19	19	19	19	19	19	19	50.2	31.4	74.7	74.7
Monitors	74 405	61 376	13 029	59 240	12 221	970	447	1 148	39.8	36.4	98.3	95.0
Managers, marketing, advertising, and public relations	206 518	182 510	24 008	178 457	23 009	2 234	556	576	41.8	33.7	96.9	95.0
Administrators, education and related fields	1 484	1 172	312	1 135	284	25	23	17	44.5	34.6	89.5	93.3
Managers, medicine and health	85 182	67 998	17 884	63 812	16 553	2 298	878	894	42.3	37.5	94.9	94.2
Other specified managers	1 095 832	953 413	142 419	916 870	132 988	16 999	5 031	23 402	43.8	38.9	90.9	89.6
Managers and administrators, n.e.c.	1 028 650	898 130	130 520	864 093	121 959	4 882	1 499	5 138	43.8	38.5	91.5	90.0
Self-employed	67 182	55 283	11 899	52 777	11 029	794	149	687	45.2	43.1	80.7	84.9
Management related occupations	429 638	296 153	133 485	277 575	119 247	10 916	4 880	7 211	38.9	33.5	94.7	93.9
Accountants and auditors	197 529	130 464	67 065	121 905	59 153	4 031	1 408	2 034	35.7	32.4	98.7	96.1
Personnel, training, and labor relations specialists	80 805	54 566	26 239	49 223	23 074	3 910	2 226	1 264	40.3	35.3	87.1	89.1
Buyers and purchasing agents	108 585	79 184	29 401	76 188	27 530	1 887	1 349	1 596	41.0	34.2	93.7	94.2
Inspectors and compliance officers	6 567	5 020	1 547	4 470	1 187	446	292	139	44.0	39.0	60.7	67.4
Other management related occupations	36 152	26 919	9 233	25 789	8 303	642	605	189	42.1	34.4	96.4	95.6
Professional specialty occupations	1 288 457	1 069 981	218 476	995 870	199 818	26 578	10 211	6 211	39.2	32.8	97.8	94.5
Engineers, architects, and surveyors	722 904	690 744	32 160	643 539	28 516	14 282	1 816	13 011	40.0	31.0	98.5	94.7
Architects	1 716	1 590	126	1 408	87	95	8	47	38.8	29.0	95.8	93.7
Engineers	720 749	688 737	32 012	641 771	28 407	14 154	1 808	12 935	40.0	31.0	98.5	94.7
Civil engineers	12 596	12 140	456	11 302	380	272	52	277	39.4	28.6	95.2	90.8
Electrical and electronic engineers	163 638	158 768	4 870	145 398	4 112	3 194	244	3 326	38.2	30.6	93.3	88.1
Industrial engineers	152 975	138 267	14 708	131 451	13 471	3 399	706	2 593	40.2	32.4	97.7	92.9
Mechanical engineers	147 813	145 018	2 795	136 128	2 496	2 877	187	2 074	40.3	29.0	98.2	97.7
Other engineers	243 727	234 544	9 183	217 492	7 948	4 421	619	2 07	41.1	29.5	98.8	96.9
Surveyors and mapping scientists	439	417	22	360	22	33	—	29	35.5	25—	86.1	100.0
Computer systems analysts and scientists	65 606	54 147	11 459	50 023	9 936	1 995	854	1 046	35.5	31.5	99.0	97.6
Operations and systems researchers and analysts	26 354	21 106	5 248	19 929	4 729	611	378	386	39.8	33.8	97.3	94.9
Mathematical scientists	7 259	4 479	2 780	4 006	2 510	187	128	106	54	40.8	66.6	31.2
Natural scientists	80 450	65 757	14 693	58 924	11 706	2 387	1 361	1 550	38.1	31.8	98.4	96.0
Chemists, except biochemists	59 234	48 941	10 293	43 224	7 914	2 073	844	937	34.4	32.1	98.6	96.0
Other natural scientists	21 216	16 816	4 401	15 700	3 792	314	292	213	37.0	31.3	97.8	96.2
Health diagnosing occupations	3 054	2 653	401	2 450	338	61	39	100	49.5	36.9	99.6	97.3
Health assessment and treating occupations	17 823	2 840	15 483	1 993	14 744	591	591	201	36.0	47.0	95.8	97.9
Registered nurses	15 582	812	14 770	721	14 120	65	515	40	34.7	47.4	96.4	98.4
Other health assessment and treating occupations	2 241	1 528	713	1 272	624	85	76	63	36.7	35.2	95.5	90.2
Teachers, except postsecondary	15 802	10 108	5 694	9 184	4 880	669	582	310	39.0	36.8	88.3	70.2
Social scientists and urban planners	29 137	21 865	7 272	20 820	6 684	510	378	278	38.4	31.0	99.1	97.2
Social and recreation workers	1 057	593	464	526	395	51	64	22	40.6	33.8	82.5	79.1
Lawyers and judges	11 756	10 362	1 394	9 999	1 245	281	122	161	50	40.9	99.6	99.9
Writers, artists, entertainers, and athletes	299 885	182 804	117 081	171 742	110 176	5 495	3 846	5 244	37.2	32.3	94.6	94.6
Other professional specialty occupations	7 370	3 023	4 347	2 735	3 959	199	277	80	40.5	37.8	90.6	92.4
Technical, sales, and administrative support occupations	4 128 349	1 990 655	2 137 694	1 799 496	1 936 161	122 266	136 081	86 875	36.2	34.0	85.0	88.1
Technicians and related support occupations	691 586	558 540	133 040	506 521	114 275	26 205	10 785	5 997	33.9	32.2	93.4	87.4
Health technologists and technicians	9 583	5 779	3 804	5 181	3 603	26 322	10 405	209	34.6	33.7	88.8	89.4
Licensed practical nurses	1 523	5 262	1 261	235	1 012	316	220	13	37.4	38.6	90.8	88.4
Other health technologists and technicians	8 060	5 517	2 543	4 946	2 148	316	185	226	34.5	32.1	88.7	89.9
Engineering and science technicians	509 079	418 343	90 736	379 687	77 984	20 178	7 695	14 994	34.0	32.9	93.0	84.5
Electrical and electronic technicians	144 695	126 999	17 696	112 865	14 569	6 235	1 454	5 204	32.3	33.4	94.4	80.7
Industrial and mechanical engineering technicians	18 107	16 148	1 959	15 084	1 748	636	155	415	38.7	35.9	89.1	76.3
Drafting and surveying technicians	137 449	121 337	16 112	112 539	14 795	4 009	574	4 466	33.2	30.0	94.8	93.0
Other engineering and science technicians	208 828	153 859	54 969	139 199	46 872	2 391	33.4	5 029	36.2	33.4	90.8	83.5
Technicians, except health, engineering, and science	172 924	134 418	38 706	121 653	33 131	5 705	2 685	1 234	30.8	30.8	95.0	93.9
Airplane pilots and navigators	4 507	4 437	37	4 402	33	14	—	57	39.8	33.2	96.6	81.4
Air traffic controllers and broadcast equipment operators	1 522	1 152	370	1 066	297	14	61	16	37.6	32.9	84.8	87.5
Computer programmers	93 010	68 389	24 621	62 651	21 267	2 434	1 514	1 578	32.5	29.9	98.4	92.0
Other technicians, except health, engineering, and science	73 885	60 440	13 445	53 534	11 497	3 193	1 110	2 005	35.0	32.9	91.3	87.8
Percent completed 4 or more years of college												
Male	14.7	53.0	48.0	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
Female	5.9	33.4	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
Percent self-employed												
Male	1.7	2.8	3.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Female	0.9	3.8	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, total													
United States													
Employed persons 16 years and over—Con													
Technical, sales, and administrative support occupations—Con.													
Sales occupations													
Supervisors and proprietors, sales occupations													
Salaries													
Self-employed													
Sales representatives, finance and business services													
Sales representatives, commodities, except retail													
Sales representatives, retail and personal services													
Cashiers													
Other sales occupations, retail and personal services													
Sales related occupations													
Administrative support occupations, including clerical													
Supervisors, administrative support occupations													
Computer equipment operators													
Secretaries, stenographers, and typists													
Secretaries													
Stenographers and typists													
Receptionists													
Other information clerks													
File clerks													
Other records processing occupations, except financial													
Bookkeepers, accounting, and auditing clerks													
Payroll and timekeeping clerks													
Other financial records processing occupations													
Telephone operators													
Mail and message distributing occupations													
Production coordinators and expeditors													
Traffic, shipping, and receiving clerks													
Stock and inventory clerks													
Other material recording, scheduling, and distributing clerks													
Adjusters and investigators													
Data-entry keyers													
Other administrative support occupations													
Service occupations													
Private household occupations													
Protective service occupations													
Guards													
Other protective service occupations													
Service occupations, except protective and household													
Food preparation and service occupation													
Health service occupations													
Cleaning and building service occupations, except household													
Personal service occupations													
Farming, forestry, and fishing occupations													
Precision production, craft, and repair occupations													
Mechanics and repairers													
Supervisors, mechanics and repairers													
Automobile mechanics, including body													
Industrial machinery repairers													
Electronic repairers, communications and industrial equipment													
Heating, air conditioning, and refrigeration mechanics													
Other mechanics and repairers													
Construction trades													
Supervisors, construction occupations													
Carpenters													
Electricians													
Painters, construction and maintenance													
Plumbers, pipefitters, and steamfitters													
Other construction trades													

*Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Manufacturing, total															
	Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Employed persons 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extrusive occupations																
Precision production occupations																
Supervisors, production occupations																
Precision metalworking occupations																
Tool and die makers																
Machinists																
Sheet metal workers																
Other precision metal workers																
Precision textile, apparel, and furnishings machine workers																
Precision food production occupations																
Precision inspectors, testers, and related workers																
Plant and system operators																
Other precision production occupations																
Operators, fabricators, and laborers																
Machine operators, assemblers, and inspectors																
Machine operators and tenders, except precision																
Metalworking and plastic working machine operators																
Fabricating machine operators, n.e.c.																
Metal and plastic processing and woodworking machine operators																
Printing machine operators																
Textile machine operators																
Textile sewing machine operators																
Laundry and dry cleaning machine operators																
Packaging and filling machine operators																
Furnace, kiln, and oven operators, except food																
Other specified machine operators																
Miscellaneous and not specified machine operators																
Fabricators, assemblers, and hand working occupations																
Welders and cutters																
Soldiers and brazers																
Assemblers																
Hand working occupations																
Production inspectors, testers, samplers, and weighers																
Graders and sorters, except agricultural																
Other production inspectors, testers, samplers, and weighers																
Transportation and material moving occupations																
Transportation occupations																
Motor vehicle operators																
Truck drivers																
Driver-sales workers																
Other motor vehicle operators																
Rail and water transportation occupations																
Material moving equipment operators																
Supervisors, material moving equipment operators																
Crane, hoist and winch operators																
Excavating, grading, and dozer machine operators																
Other material moving equipment operators																
Handlers, equipment cleaners, helpers, and laborers																
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.																
Helpers, craft and production																
Construction laborers																
Freight, stock, and material handlers																
Garage and service station occupations, and equipment cleaners																
Hand packers and packagers																
Laborers, except construction																

¹Persons of Spanish origin may be of any race

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Food and kindred products											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	Total			White			Male	Female	Male	Female	Male	Female
	Both sexes	Male	Female	Male	Female	Black						
United States												
Employed persons 16 years and over	1 533 548	1 065 776	467 772	878 508	365 212	122 707	67 961	97 864	45 415	36.4	64.2	61.7
Managerial and professional specialty occupations	169 723	141 992	27 731	134 631	25 058	3 556	1 404	4 017	982	41.7	89.9	91.7
Executive, administrative, and managerial occupations	142 269	120 743	21 526	114 854	19 634	2 999	975	3 502	784	42.2	88.8	90.7
Offices, administrative, and public administration	18	18	—	12	—	—	—	18	—	60.0	—	—
Financial managers	5 900	5 153	747	4 929	655	89	49	113	31	39.4	98.2	94.5
Managers, marketing, advertising, and public relations	17 477	16 119	1 358	15 700	1 223	282	53	317	31	41.6	93.8	95.6
Administrators, education and related fields	76	48	28	46	—	2	—	—	—	39.7	79.2	100.0
Managers, medicine and health	5 337	4 124	1 213	3 924	1 134	130	55	118	93	—	—	—
Other specified managers	83 588	73 906	9 682	70 373	9 080	1 767	260	2 245	396	43.6	92.6	88.6
Managers and administrators, n.e.c.	78 333	69 551	8 782	66 235	8 238	1 710	249	2 033	342	40.3	86.8	88.1
Self-employed	5 255	4 355	900	4 138	842	57	11	212	54	47.7	74.5	78.4
Management-related occupations	29 873	21 375	8 498	19 870	7 514	729	558	691	264	38.3	91.6	93.7
Accountants and auditors	14 681	9 455	5 226	8 794	4 575	259	329	215	155	34.2	98.4	96.6
Personnel, training, and labor relations specialists	4 532	3 177	1 355	2 734	1 180	258	123	263	62	38.9	98.4	97.5
Buyers and purchasing agents	8 218	7 054	1 164	6 753	1 125	148	15	182	8	43.5	88.5	87.8
Inspectors and compliance officers	608	348	260	296	191	44	52	14	30	47.9	76.1	50.0
Other management-related occupations	1 834	1 341	493	1 293	443	20	39	17	9	41.1	95.2	98.6
Professional specialty occupations	27 454	21 249	6 205	19 777	5 424	557	429	515	198	38.3	95.7	95.1
Engineers, architects, and surveyors	11 417	10 665	752	10 039	682	212	44	264	11	40.0	95.2	94.5
Architects	11 315	10 588	727	9 953	677	207	44	264	11	38.2	95.4	94.0
Engineers	699	634	65	603	36	35	—	24	—	40.0	95.4	94.5
Civil engineers	645	580	65	570	40	33	—	5	—	34.9	82.1	66.7
Electrical and electronic engineers	3 110	2 530	580	2 487	401	39	20	64	6	42.4	94.7	100.0
Industrial engineers	2 721	2 302	419	2 148	373	33	—	57	—	37.5	91.9	100.0
Mechanical engineers	4 140	3 962	178	3 745	152	47	24	114	5	39.9	98.4	100.0
Other engineers	18	18	—	12	—	—	—	—	—	50.0	66.7	—
Surveyors and mapping scientists	1 357	1 079	278	1 035	256	26	19	24	15	34.0	99.0	97.8
Computer systems analysts and scientists	646	433	213	397	168	6	40	5	—	35.3	95.8	95.1
Operations and systems researchers and analysts	238	104	134	94	112	—	6	3	—	37.5	100.0	101.1
Mathematical scientists	6 075	4 368	1 707	3 860	1 369	144	99	111	58	35.4	97.7	98.8
Natural scientists	3 585	2 753	832	2 385	586	100	72	67	48	36.0	98.3	99.3
Chemists, except biochemists	2 490	1 615	875	1 475	783	44	27	44	10	34.6	95.9	98.2
Other natural scientists	239	205	34	188	29	17	—	—	—	46.3	98.0	98.2
Health diagnosing occupations	1 396	335	1 061	319	946	11	91	15	20	39.5	89.9	96.9
Health assessment and treating occupations	929	31	898	25	811	6	65	4	14	25—	72.5	72.5
Registered nurses	467	304	163	294	135	5	26	11	6	40.6	97.8	97.8
Other health assessment and treating occupations	389	127	262	120	246	—	—	—	—	42.7	84.3	88.2
Teachers, except postsecondary	1 765	1 275	490	1 196	416	44	57	13	27	36.4	97.7	98.1
Social scientists and urban planners	71	47	24	36	19	11	6	—	—	40.9	100.0	100.0
Social and recreation workers	681	581	100	547	87	34	13	12	—	40.0	98.9	99.0
Loopers and judges	2 956	1 917	1 039	1 843	984	42	44	62	48	38.5	90.2	90.3
Writers, artists, entertainers, and athletes	224	113	111	103	111	10	—	6	—	49.6	90.3	86.5
Other professional specialty occupations	252 404	111 467	140 937	97 818	127 695	9 173	8 539	6 809	6 130	36.9	79.1	85.5
Technical, sales, and administrative support occupations	23 723	13 477	10 246	12 008	8 926	839	823	540	502	34.0	89.1	81.6
Technicians and related support occupations	344	132	212	76	194	40	14	10	4	32.6	60.6	60.6
Health technicians and technicians	84	4	80	4	74	—	6	—	—	60.0	100.0	100.0
Licensed practical nurses	260	128	132	72	120	40	8	10	4	32.3	59.4	77.3
Other health technicians and technicians	19 077	10 466	8 611	9 219	7 472	700	702	486	450	34.4	87.4	79.3
Engineering and science technicians	231	580	75	539	75	35	—	9	12	34.2	90.5	97.3
Electrical and electronic technicians	231	580	75	539	75	35	—	9	12	34.2	90.5	97.3
Industrial and mechanical engineering technicians	1 285	1 189	96	1 070	92	26	24	16	8	42.6	60.2	—
Drafting and surveying technicians	16 906	8 486	8 420	7 389	7 305	678	678	418	430	33.0	93.1	87.1
Other engineering and science technicians	4 302	2 879	1 423	2 713	1 260	99	107	44	48	34.4	87.1	79.0
Technicians, except health, engineering, and science	337	336	1	336	1	—	—	9	—	33.0	96.6	95.2
Airplane pilots and navigators	46	26	20	26	20	—	—	—	—	41.6	97.9	100.0
Air traffic controllers and broadcast equipment operators	2 396	1 518	878	1 445	806	51	51	13	13	30.7	100.0	100.0
Computer programmers	1 523	999	524	906	433	48	56	22	6	30.9	98.7	96.9
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	—	37.5	92.8	94.3

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States																		
Food and kindred products																		
Race																		
Black																		
Spanish origin ¹																		
Median age																		
Percent high school graduates																		
Percent completed 4 or more years of college																		
Percent self-employed																		
Both sexes																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		
Female																		
Male																		

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States														
Employed persons 16 years and over—Con.														
Race					Food and kindred products					Percent self-employed				
Total			White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Precision production, craft, and repair occupations—Con.														
Extraction occupations														
229 520	181 648	47 872	11	85	11	33 988	—	—	20 234	5 554	43.6	100.0	9.1	—
9 403	79 326	11 387	69 091	9 086	6 535	1 438	6 086	1 418	40 6	42.3	42.3	50.8	7.2	2.8
9 613	8 854	549	376	137	956	137	669	54	42.2	42.3	71.3	57.3	13.1	7.3
Precision machine occupations														
2 206	2 013	193	166	372	14	118	35	30.0	42.2	42.2	45.7	42.4	2.2	—
7 906	7 412	493	6 141	344	835	118	530	42	41.8	42.2	54.0	42.8	3.5	—
666	650	16	606	11	38	22	5	47.7	47.7	66.6	42.8	75.0	0.1	0.4
627	589	38	453	119	69	19	82	7	39.0	32.3	69.8	75.0	1.2	—
312	208	104	98	192	6	9	22	7	36.4	34.4	54.3	26.3	9.6	1.7
Precision textile, apparel, and furnishings machine workers														
122 020	86 622	35 398	24 101	7 832	12 421	7 832	13 208	4 034	33.7	34.8	61.5	58.2	2.3	1.9
159	69	90	67	17	—	12	261	13	35.6	42.2	53.0	48.9	2.3	1.3
Precision inspectors, testers, and related workers														
6 598	6 433	165	5 824	67	379	68	261	13	42.0	42.2	71.0	44.0	14.5	6.7
Plant and system operators														
340	340	75	267	69	33	6	60	16	42.1	35.3	48.8	69.3	7.5	3.0
Other precision production occupations														
415	340	75	267	69	33	6	60	16	42.1	35.3	48.8	69.3	1.2	14.7
Operators, fabricators, and laborers														
730 547	496 892	233 655	165 753	385 528	75 638	45 106	54 726	31 060	33.5	38.4	56.2	47.0	2.5	1.2
308 014	192 444	115 570	81 583	147 185	30 218	22 221	19 014	15 533	34.4	38.9	56.5	47.6	3.1	1.4
239 131	162 160	76 971	123 869	54 329	25 822	15 642	22 021	9 292	34.6	38.5	56.2	47.8	2.9	1.1
Machine operators and tenders, except precision														
2 607	2 228	379	264	102	398	102	311	56	34.0	35.1	50.5	48.5	2.8	—
Metalworking and plastic working machine operators														
121	88	33	76	—	12	—	5	6	33.8	41.9	72.7	84.8	5.7	—
Fabricating machine operators, n.e.c.														
Metal and plastic processing and woodworking machine operators														
1 907	1 304	603	990	493	223	86	123	48	33.7	34.0	50.2	57.9	3.0	0.2
533	385	148	955	329	100	37	169	13	33.7	36.9	74.0	71.9	3.7	1.6
Printing machine operators														
1 103	622	481	249	203	127	203	39	8	31.2	34.6	54.5	42.2	—	—
Textile machine operators														
807	402	405	291	95	79	95	84	25	35.0	35.3	34.8	45.7	2.7	0.5
Textile sewing machine operators														
362	181	181	134	23	14	23	34	17	38.5	35.7	37.0	59.7	6.6	3.3
Laundry and dry cleaning machine operators														
56 532	29 670	26 862	19 559	9 987	4 592	3 637	3 678	481	33.7	39.2	57.4	39.2	2.9	0.8
Packaging and filling machine operators														
3 492	3 383	109	54	228	36	153	153	6	43.0	35.9	62.6	54.1	2.4	0.1
Furnace, kiln, and oven operators, except food														
60 663	50 076	10 587	40 233	7 296	7 340	2 453	4 071	1 230	36.1	37.5	57.3	46.0	3.4	1.7
Other specified machine operators														
110 004	73 058	36 946	52 889	25 627	13 314	8 015	10 388	4 315	34.2	38.5	54.8	47.8	2.5	1.3
Miscellaneous and not specified machine operators														
32 631	17 951	14 680	13 410	10 229	2 779	2 571	2 484	2 106	32.1	38.0	54.7	46.9	1.7	1.2
Fabricators, assemblers, and hand working occupations														
5 114	4 975	139	4 062	74	306	39	590	17	36.1	30.5	57.0	57.6	1.2	5.0
Welders and cutters														
73	60	40	7	—	6	—	13	12	55.7	35.8	—	—	—	—
Soldiers and brazers														
Assemblers														
17 617	7 381	10 236	5 186	7 159	1 614	1 832	997	797	29.7	37.6	55.8	48.7	2.0	1.3
Hand working occupations														
9 827	5 582	4 245	4 155	2 956	853	700	884	280	31.4	39.3	51.5	42.2	1.8	0.1
Production inspectors, testers, samplers, and weighers														
36 252	12 333	23 919	9 906	17 025	1 617	4 008	1 249	4 135	34.7	40.9	43.4	47.2	9.0	2.3
Graders and sorters, except agricultural														
13 600	3 492	10 108	6 778	2 701	443	1 359	577	2 681	29.9	40.7	49.7	39.8	3.2	1.1
Other production inspectors, testers, samplers, and weighers														
22 652	8 841	13 811	7 205	10 247	1 174	2 649	672	1 454	37.3	41.1	68.7	52.7	11.3	3.2
Transportation and material moving occupations														
165 234	159 994	5 240	132 752	4 077	19 030	860	12 472	491	34.8	33.6	60.7	61.2	2.3	2.1
Transportation occupations														
120 779	118 941	1 838	102 541	1 537	12 126	207	6 781	118	35.7	32.8	62.8	67.1	2.4	3.4
Motor vehicle occupations														
120 430	118 599	1 831	102 233	1 530	12 113	207	6 747	118	35.7	32.9	62.8	67.0	2.3	3.4
Truck drivers														
75 098	74 129	969	65 554	768	9 355	141	4 761	65	35.4	32.9	56.9	63.2	1.7	2.7
Driver-sales workers														
41 659	40 867	792	37 597	699	2 416	62	1 780	50	35.8	32.4	73.5	72.7	3.2	4.2
Other motor vehicle occupations														
3 673	3 603	70	3 082	63	342	4	206	3	34.9	36.5	63.6	54.3	3.9	5.7
349	342	7	308	7	13	—	34	—	33.7	30.0	60.2	100.0	4.4	—
Rail and water transportation occupations														
44 455	41 053	3 402	30 211	2 540	6 904	653	5 691	373	32.6	34.0	54.6	58.0	2.1	1.4
Material moving equipment operators														
340	340	—	310	—	10	—	14	—	39.1	—	73.5	—	10.3	—
Supervisors, material moving equipment operators														
721	667	54	457	21	68	19	63	5	33.1	33.1	44.4	37.0	4.2	—
Crane, hoist, and winch operators														
361	302	59	186	37	8	8	33	14	42.7	44.1	41.1	23.7	2.0	—
Excavating, grading, and dozer machine operators														
43 033	39 744	3 289	29 258	2 482	6 762	626	5 581	354	32.5	33.9	54.7	58.9	2.0	1.4
Other material moving equipment operators														
Handlers, equipment cleaners, helpers, and laborers														
257 299	144 454	112 845	105 591	80 093	26 390	22 025	19 507	15 036	30.6	38.1	50.8	45.8	2.0	0.9
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.														
154	136	18	111	18	25	342	—	—	33.7	56.0	68.4	83.3	33.1	44.4
Helpers, craft and production														
7 576	5 550	2 026	3 949	1 535	1 124	342	851	240	31.4	38.6	46.9	49.7	1.6	1.7
Construction laborers														
43 930	38 203	5 727	29 851	4 157	6 001	1 243	3 533	510	28.3	35.5	53.1	49.9	1.4	—
Freight, stock, and material handlers														
Garage and service station occupations, and equipment cleaners														
9 322	7 653	1 669	5 778	1 234	1 284	305	930	97	32.2	34.7	52.4	54.5	2.3	1.8
Hand packers and packagers														
110 135	30 736	79 399	20 948	58 067	13 154	6 977	6 099	11 543	31.3	38.9	51.3	46.6	1.8	0.8
Laborers, except construction														
85 419	61 479	23 940	44 400	15 035	11 835	6 977	8 004	2 638	31.4	36.2	49.1	41.3	2.1	0.4

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Textile mill products																		
United States																		
Race						Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
Total		White		Female		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over																		
946 423	496 696	449 727	398 113	352 048	85 677	84 907	22 049	18 271	36.8	37.6	50.6	48.3	8.5	2.0	0.7	0.7	0.7	0.7
65 121	51 515	13 606	49 111	12 630	1 603	680	965	316	42.1	37.6	87.7	83.0	46.5	20.1	2.1	2.1	4.2	4.2
49 305	40 762	8 543	39 058	8 006	1 185	391	830	185	42.9	38.6	86.9	84.3	45.2	15.8	2.3	2.3	4.5	4.5
1 961	1 557	404	1 463	383	52	12	29	9	41.0	38.2	98.4	86.6	68.5	10.1	—	—	—	—
3 457	3 172	285	3 136	267	15	12	62	18	43.3	33.8	97.6	98.6	57.8	24.9	1.1	—	—	—
67	54	13	54	13	—	—	—	—	44.6	50.0	68.5	38.5	27.8	—	—	—	—	—
2 629	2 078	551	1 998	512	55	23	62	—	40.8	—	93.1	88.0	59.3	19.4	1.2	—	—	—
31 696	27 436	4 260	26 344	3 954	716	243	571	130	43.7	40.0	84.8	81.6	41.1	16.5	3.0	8.6	8.6	8.6
30 469	26 608	3 861	25 566	3 581	703	238	531	118	43.6	39.4	85.2	82.4	41.7	16.0	—	—	—	—
1 227	828	399	778	373	13	5	40	12	47.6	45.2	71.9	73.4	23.2	21.6	98.2	91.7	91.7	91.7
9 495	6 465	3 030	6 063	2 877	347	101	106	28	39.6	36.0	86.1	85.9	46.4	14.0	1.2	0.5	0.5	0.5
4 262	2 747	1 515	2 652	1 454	66	41	72	16	38.7	33.5	96.1	92.3	63.9	19.3	0.9	—	—	—
2 771	1 991	780	1 770	1 074	206	38	22	6	39.1	39.8	71.5	70.0	25.1	7.6	0.7	1.2	1.2	1.2
1 572	1 118	454	1 074	442	39	12	5	—	41.8	37.0	84.1	92.5	35.4	6.4	1.0	—	—	—
1 551	1 008	47	79	43	23	10	7	—	38.7	43.1	75.0	53.2	6.5	14.9	—	—	—	—
735	501	234	488	234	13	—	488	6	41.7	39.8	95.8	91.9	67.9	16.2	6.4	3.0	3.0	3.0
15 816	10 753	5 063	10 053	4 624	418	289	135	131	38.7	35.6	90.9	80.7	51.3	27.4	1.2	3.6	3.6	3.6
6 931	6 154	777	5 921	728	132	37	35	23	38.5	32.6	94.8	84.9	56.4	24.1	0.2	1.9	1.9	1.9
58	58	—	41	—	17	—	—	—	45.4	—	93.1	—	62.1	—	—	—	—	—
6 873	6 096	777	5 880	728	115	37	35	23	38.4	32.6	94.8	84.9	56.3	24.1	0.2	1.9	1.9	1.9
86	86	—	86	—	—	—	—	—	47.1	—	90.7	—	53.5	—	—	—	—	—
243	230	13	216	13	14	—	5	—	41.1	30.9	97.0	46.2	61.3	—	—	—	—	—
3 465	2 808	657	2 751	613	50	32	20	15	35.4	33.8	95.9	85.2	54.4	20.7	0.3	—	—	—
1 419	1 386	33	1 348	33	25	—	20	—	43.8	30.5	89.8	81.8	46.2	57.6	0.3	—	—	—
1 660	1 586	74	1 479	69	26	5	10	8	38.5	27.3	97.2	90.5	68.0	43.2	0.3	20.3	20.3	20.3
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
551	445	106	428	100	—	—	—	10	38.2	30.0	100.0	100.0	52.1	49.1	1.6	—	—	—
343	284	59	284	59	—	—	—	—	37.0	40.0	97.2	100.0	37.7	39.0	1.1	—	—	—
91	36	55	29	55	7	—	—	—	39.5	40.0	83.3	61.8	77.8	—	—	—	—	—
1 162	1 009	153	916	116	28	15	16	4	41.5	29.8	93.8	96.7	70.0	74.5	—	—	—	—
1 074	934	140	848	103	21	15	16	4	41.9	29.5	93.8	100.0	71.2	81.4	—	—	—	—
88	75	13	68	13	7	—	—	—	32.3	33.1	93.3	61.5	54.7	—	—	—	—	—
14	12	2	12	2	—	—	—	—	60.0	50.0	100.0	100.0	100.0	100.0	—	—	—	—
907	61	846	43	824	9	22	9	—	30.2	46.0	75.4	94.8	21.3	34.3	—	0.8	0.8	0.8
889	49	840	31	818	9	22	9	—	31.5	45.8	81.6	94.8	26.5	34.5	—	—	—	—
18	12	6	12	6	—	—	—	—	25.0	60.0	50.0	100.0	—	—	—	—	—	—
1 412	480	932	420	764	60	157	—	5	37.9	41.3	52.9	41.3	5.4	1.0	—	1.9	1.9	1.9
335	250	85	234	85	4	—	—	—	36.6	29.4	94.8	100.0	62.4	43.5	6.0	—	—	—
29	21	8	17	8	—	—	—	—	54.3	30.0	66.7	100.0	—	—	28.6	—	—	—
131	109	22	109	22	—	—	—	9	40.2	38.1	100.0	100.0	100.0	100.0	12.8	40.9	40.9	40.9
3 682	1 784	1 898	1 551	1 771	159	28	75	80	38.3	32.8	84.1	88.9	36.2	33.3	4.0	7.1	7.1	7.1
228	108	120	89	90	19	30	—	—	44.5	34.3	67.6	75.0	10.2	14.2	—	—	—	—
119 195	47 662	71 533	41 671	65 579	4 997	4 876	1 836	1 882	37.3	35.6	73.4	81.1	18.5	4.5	1.3	0.3	0.3	0.3
13 922	8 405	5 517	7 686	4 886	560	558	145	80	35.0	37.9	81.4	72.7	20.5	38.9	0.2	0.3	0.3	0.3
241	51	190	30	21	21	—	169	—	45.2	37.8	100.0	81.1	37.3	6.8	—	—	—	—
116	—	—	—	—	—	—	—	—	—	—	—	73.3	—	6.9	—	—	—	—
125	51	74	30	60	21	14	—	—	45.2	30.7	100.0	93.2	37.3	6.8	—	—	—	—
9 301	4 955	4 346	4 487	3 821	369	477	85	78	34.6	40.4	83.3	70.3	16.3	3.8	0.1	0.4	0.4	0.4
487	439	48	408	41	25	7	6	—	31.7	35.4	91.1	70.8	5.0	—	—	—	—	—
853	557	296	528	244	29	52	—	—	36.6	39.3	84.6	64.5	37.9	3.7	—	—	—	—
672	535	137	482	109	53	28	10	—	33.8	34.9	89.5	71.5	5.2	6.6	—	—	—	—
7 289	3 424	3 865	3 069	3 427	262	390	69	78	34.4	40.8	81.1	70.7	15.9	3.8	0.2	0.4	0.4	0.4
4 380	3 399	981	3 169	896	170	60	60	2	35.8	32.8	78.5	81.9	26.3	23.0	0.4	—	—	—
101	101	—	94	—	—	—	—	—	31.6	—	—	—	—	—	—	—	—	—
32	23	9	23	9	—	—	—	—	38.6	—	100.0	100.0	43.6	—	—	—	—	—
981	439	23	942	404	27	20	37	—	31.2	28.8	97.6	95.7	69.6	36.7	—	—	—	—
2 827	2 294	533	2 110	483	143	40	23	2	39.4	40.2	69.7	70.2	18.7	12.2	0.6	—	—	—

¹Persons of Spanish origin may be of any race

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States		Textile mill products												Percent self employed	
		Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college			
		White		Black											
		Total		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		
Employed persons 16 years and over—Con															
Technical, sales, and administrative support occupations—Con															
Sales occupations															
Supervisors and proprietors, sales occupations															
Salaried															
Self-employed															
Sales representatives, finance and business services															
Sales representatives, commodities, except retail															
Sales workers, retail and personal services															
Cashiers															
Other sales occupations, retail and personal services															
Sales related occupations															
Administrative support occupations, including clerical															
Supervisors, administrative support occupations															
Computer operators															
Secretaries, stenographers, and typists															
Stenographers and typists															
Receptionists															
Other information clerks															
File clerks															
Other records processing occupations, except financial															
Bookkeepers, accounting, and auditing clerks															
Payroll and timekeeping clerks															
Other financial records processing occupations															
Telephone operators															
Mail and message distributing occupations															
Production coordinators and expeditors															
Traffic, shipping, and receiving clerks															
Stock and inventory clerks															
Other material recording, scheduling, and distributing clerks															
Adjusters and investigators															
Data-entry keyers															
Other administrative support occupations															
Service occupations															
Private household occupations															
Protective service occupations															
Guards															
Other protective service occupations															
Service occupations, except protective and household															
Food preparation and service occupation															
Health service occupations															
Cleaning and building service occupations, except household															
Personal service occupations															
Farming, forestry, and fishing occupations															
Precision production, craft, and repair occupations															
Mechanics and repairers															
Supervisors, mechanics and repairers															
Automobile mechanics, including body															
Industrial machinery repairers															
Electronic repairers, communications and industrial equipment															
Heating, air conditioning, and refrigeration mechanics															
Other mechanics and repairers															
Construction trades															
Supervisors, construction occupations															
Carpenters															
Electricians															
Painters, construction and maintenance															
Plumbers, pipefitters, and steamfitters															
Other construction trades															

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Textile mill products																	
	Race						Spanish origin ¹				Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White		Black		Male		Female		Male		Female		Male		Female	
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over—Con.																		
Precision production, craft, and repair occupations—Con																		
Extraction occupations	305	201	104	154	45	36	52	9	7	30.1	33.5	50.2	57.7	3.5	57.7	0.7	1.2	
Precision production occupations	49 357	56 115	13 242	50 384	11 096	4 534	1 613	1 948	804	42.4	41.6	39.8	50.7	8.6	42.7	0.4	0.7	
Supervisors, production occupations	55 880	46 563	9 317	42 351	8 129	3 417	860	1 297	486	39.7	39.9	37.8	42.9	3.0	37.9	0.9	—	
Precision manufacturing occupations	6 599	5 943	656	5 070	485	7 444	169	210	19	41.8	40.7	43.0	43.0	0.8	43.0	0.4	—	
Tool and die makers	2 407	245	2	223	2	17	150	201	19	40.8	36.7	43.0	32.8	0.5	43.0	0.4	—	
Machine tool operators	5 400	4 985	415	4 266	263	620	19	201	19	40.8	36.7	43.0	32.8	0.5	43.0	0.4	—	
Sheet metal workers	291	276	15	261	8	10	7	—	—	37.5	26.2	52.2	52.2	1.1	52.2	1.1	—	
Other precision metal workers	661	437	224	320	212	97	12	—	—	44.6	46.0	44.0	24.6	4.8	44.0	—	—	
Precision textile, apparel, and furnishings machine workers	4 601	1 798	2 803	1 448	2 107	131	510	391	274	33.8	38.1	51.1	50.5	8.9	39.1	8.9	3.0	
Precision food production occupations	87	64	23	42	11	22	6	—	—	43.8	41.9	39.1	51.1	—	44.0	—	—	
Precision inspectors, testers, and related workers	291	150	141	96	44	49	30	10	8	32.0	32.7	44.0	53.9	—	44.0	—	—	
Plant and system operators	1 375	1 245	130	1 115	108	86	14	28	8	42.4	38.8	68.2	57.7	0.5	57.7	0.5	—	
Other precision production occupations	524	352	172	262	139	85	24	12	17	38.0	45.3	52.8	66.9	4.0	52.8	4.0	1.2	
Operators, fabricators, and laborers																		
Machine operators, assemblers, and inspectors	593 553	251 305	342 248	181 056	256 940	61 775	74 600	14 883	14 986	32.7	37.6	41.0	40.4	1.4	41.0	0.3	0.6	
Machine operators and tenders, except precision	497 815	183 094	314 721	134 221	236 250	42 272	48 727	11 527	13 497	33.6	37.6	41.0	40.3	1.6	41.0	0.4	0.6	
Machine operators and tenders, except precision	442 063	166 977	275 086	121 863	204 498	39 057	61 910	11 858	13 497	33.6	37.6	41.0	40.3	1.5	41.0	0.4	0.7	
Metallurgy and plastic working machine operators	2 763	1 625	1 138	1 278	836	270	243	128	56	36.4	35.8	45.4	40.6	0.9	45.4	0.3	—	
Fabricating machine operators, n.e.c.	322	132	190	94	168	30	22	22	5	31.0	42.1	58.3	35.3	—	58.3	—	—	
Metal and plastic processing and woodworking machine operators	3 025	2 029	996	1 517	738	471	247	70	59	33.1	35.5	42.4	50.3	0.9	42.4	0.7	1.4	
Printing machine operators	3 652	2 400	1 252	1 020	208	359	208	223	34	33.2	34.2	48.4	44.8	2.8	48.4	0.8	—	
Textile machine operators	274 104	104 127	169 977	75 756	124 835	24 779	41 518	6 457	5 037	33.9	37.0	38.4	38.4	1.4	38.4	0.4	0.9	
Textile sewing machine operators	72 339	6 039	66 300	4 218	50 993	1 440	12 121	4 615	37.1	34.5	37.1	37.5	43.2	1.2	37.5	1.5	0.5	
Laundry and dry cleaning machine operators	483	281	202	205	138	58	64	24	—	29.8	36.4	53.0	45.0	—	53.0	—	—	
Packaging and filling machine operators	2 000	713	1 287	507	113	160	129	44	65	30.9	40.3	46.1	43.0	1.7	46.1	0.5	—	
Food and kindred product occupations, except food	1 395	1 309	86	1 148	61	140	25	46	—	47.8	44.7	40.5	43.0	—	40.5	—	—	
Furnace, kiln, and oven operators, except food	30 275	21 219	9 056	15 863	6 918	6 447	1 796	993	526	32.4	36.4	44.7	42.6	2.1	44.7	1.0	0.2	
Other specified machine operators	51 705	27 103	24 602	19 364	18 278	6 703	5 537	1 938	1 461	33.0	38.6	44.5	40.5	1.3	44.5	0.4	0.1	
Miscellaneous and not specified machine operators																		
Fabricators, assemblers, and hand working occupations	10 725	5 835	4 890	4 171	3 681	1 106	901	504	422	32.5	36.8	49.9	44.0	2.1	49.9	1.0	1.2	
Welders and cutters	1 902	1 730	172	1 510	133	168	39	16	7	34.5	38.1	52.5	23.3	1.2	52.5	0.5	1.2	
Solders and brazers	48	24	24	13	6	7	2	—	—	55.8	43.0	—	12.5	—	—	—	—	
Assemblers	7 301	3 407	3 894	2 364	2 862	824	770	351	398	31.1	36.0	48.9	46.1	2.5	50.3	1.2	0.5	
Hand working occupations	1 474	674	800	524	92	114	92	68	15	32.9	39.4	50.9	39.4	5.5	55.0	1.2	4.3	
Production inspectors, testers, samplers, and weighers	45 027	10 282	34 745	7 947	28 071	2 109	5 916	477	1 217	34.5	41.9	49.8	42.4	2.5	49.8	0.7	—	
Graders and sorters, except agricultural	3 512	824	2 688	604	2 129	203	533	28	63	36.6	45.1	40.7	38.1	—	40.7	1.1	—	
Other production inspectors, testers, samplers, and weighers	41 515	9 458	32 057	7 343	25 942	1 906	5 383	449	1 154	34.4	41.7	50.6	42.8	2.5	50.6	0.7	—	
Transportation and material moving occupations																		
Transportation occupations	26 243	22 715	3 528	16 100	2 834	5 966	514	1 137	346	32.9	36.8	41.3	48.4	1.1	41.3	0.2	—	
Motor vehicle operators	8 442	8 095	347	5 931	283	1 896	59	480	14	38.8	35.3	39.1	73.2	0.2	39.1	0.4	—	
Motor vehicle operators	8 276	7 958	318	5 813	260	1 877	53	480	5	39.0	34.5	39.0	71.4	1.2	39.0	0.4	—	
Truck drivers	7 738	7 497	241	5 485	188	1 752	53	440	—	38.8	35.3	39.1	67.6	1.0	39.1	0.5	—	
Driver-sales workers	234	195	39	169	39	26	—	—	—	41.6	26.6	42.1	84.6	—	42.1	—	—	
Other motor vehicle operators	304	266	38	159	33	99	—	40	5	37.3	40.0	33.5	81.6	4.9	33.5	—	—	
Rail and water transportation occupations	166	137	29	118	23	19	6	—	9	34.9	40.0	49.6	93.1	—	49.6	—	—	
Material moving equipment operators	17 801	14 620	3 181	10 169	2 551	4 070	455	657	332	29.9	37.0	42.4	45.6	2.2	42.4	0.1	—	
Supervisors, material moving equipment operators	76	69	7	49	—	20	—	4	—	38.0	50.0	85.5	13.0	—	85.5	—	—	
Crane, hoist, and winch operators	217	174	43	131	37	20	6	—	—	31.0	32.1	58.6	72.1	1.3	58.6	1.3	—	
Excavating, grading, and dozer machine operators	165	153	12	132	6	21	—	2	—	34.9	49.0	55.6	16.7	5.9	55.6	0.9	—	
Other material moving equipment operators	17 343	14 224	3 119	9 857	2 501	3 986	443	651	332	29.8	37.0	41.9	45.5	2.2	41.9	0.1	—	
Handlers, equipment cleaners, helpers, and laborers																		
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	69 495	45 496	23 999	30 735	17 856	13 537	5 359	2 219	1 143	28.7	37.5	38.6	40.5	1.1	38.6	0.2	0.2	
Helpers, craft and production	136	107	29	107	23	—	6	—	—	43.3	56.5	61.7	20.7	7.5	61.7	—	—	
Construction laborers	2 246	1 795	451	1 341	286	390	133	143	86	29.9	34.3	37.9	38.1	0.7	37.9	—	—	
Freight, stock, and material handlers	318	280	38	140	26	130	7	26	—	42.8	37.5	45.7	21.1	3.3	45.7	—	—	
Garage and service station occupations, and equipment cleaners	28 093	21 869	6 224	14 146	4 391	7 425	1 736	578	112	27.1	34.3	38.6	41.3	0.5	38.6	0.1	0.1	
Hand packers and packagers	3 656	2 238	1 418	1 655	1 015	570	393	59	13	29.0	45.4	28.4	25.7	0.6	28.4	—	—	
Hand packers and packagers	14 154	5 486	8 668	4 088	6 771	1 120	1 474	383	608	29.5	38.2	42.4	43.5	1.8	42.4	0.2	0.2	
Laborers, except construction	20 892	13 721	7 171	9 258	5 344	3 902	1 610	1 030	324	30.9	38.6	38.6	39.4	1.5	38.6	0.4	0.3	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																
Apparel and other finished textile products																
	Race				Block		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	White		Black													
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Employed persons 16 years and over																
1 300 361	282 744	1 017 617	221 814	768 219	32 106	139 900	46 460	151 023	37.2	58.1	46.9	11.8	2.1	2.7	1.0	
79 748	49 030	30 738	45 216	26 843	1 236	1 604	3 136	3 128	36.7	87.7	83.1	38.4	20.4	7.1	9.3	
63 496	42 693	20 803	39 499	18 181	911	997	2 801	2 067	38.9	87.5	81.7	38.4	17.1	7.4	9.5	
2 609	1 763	846	1 698	803	11	15	70	26	41.8	96.7	96.3	69.0	24.3	—	0.1	
4 990	3 701	1 289	3 629	1 238	26	11	76	51	43.2	96.9	95.6	45.3	32.4	3.2	4.5	
72	24	48	24	45	—	—	—	—	33.9	100.0	100.0	100.0	41.7	25.0	14.6	
2 247	1 247	1 000	1 105	865	8	56	204	140	39.9	81.2	82.2	42.8	11.0	6.3	4.8	
44 038	31 580	12 458	29 168	10 905	675	440	2 176	1 496	43.7	85.6	79.0	33.7	15.9	8.9	14.6	
39 207	28 703	10 504	26 791	9 389	630	400	1 752	1 149	43.3	86.7	80.0	34.9	16.1	—	—	
4 831	2 877	1 954	2 377	1 516	45	40	424	347	47.4	73.9	73.7	21.9	15.0	98.2	93.2	
9 540	4 378	5 162	3 875	4 325	191	475	275	354	34.8	91.2	81.9	52.2	15.8	2.5	1.0	
3 945	2 089	1 856	1 845	1 527	87	145	71	110	33.2	97.1	89.1	68.0	23.2	1.6	0.3	
2 655	788	1 867	1 524	1 524	50	236	97	178	35.0	80.5	69.1	35.5	38.6	2.8	0.6	
2 223	1 158	1 065	1 084	962	47	61	100	60	42.2	87.5	93.4	31.5	17.3	2.2	1.9	
95	7	88	—	63	7	25	—	—	50.0	43.9	31.8	—	—	—	—	
622	336	286	321	249	—	8	7	6	42.1	94.0	91.6	65.8	29.0	8.0	4.5	
16 272	6 337	9 935	5 717	8 662	325	607	335	1 061	36.6	89.2	86.2	38.0	27.2	5.3	8.6	
3 245	2 493	752	2 353	683	67	38	60	26	35.9	95.4	91.2	44.9	16.2	0.3	2.1	
29	29	—	18	—	11	—	—	—	30.0	24.1	—	24.1	—	—	—	
3 209	2 457	752	2 328	683	56	38	60	26	32.8	96.2	81.6	45.3	16.2	24.1	2.1	
45	39	6	39	6	—	—	—	—	30.0	100.0	100.0	15.4	—	—	—	
3	3	—	—	—	—	—	—	—	27.5	100.0	100.0	—	—	—	—	
41	35	6	27	6	8	—	—	6	29.2	60.0	82.9	54.3	60.0	—	—	
2 200	1 551	649	1 476	599	28	19	25	20	34.9	96.3	95.5	44.0	16.8	—	—	
421	400	21	396	21	20	—	20	—	39.9	95.0	100.0	37.8	—	—	—	
502	432	70	390	51	20	19	15	—	37.8	97.0	78.6	58.8	18.6	—	—	
7	7	—	7	—	—	—	—	—	30.0	100.0	—	—	—	—	—	
447	277	170	271	160	—	5	—	6	32.1	100.0	95.3	48.4	61.8	—	—	
193	125	68	115	68	—	—	11	6	33.9	92.8	91.2	66.4	35.3	—	—	
2	2	—	—	—	—	2	—	—	30.0	—	100.0	—	—	—	—	
122	92	30	87	18	3	12	—	—	35.0	100.0	100.0	65.2	53.3	—	—	
112	82	30	77	18	3	12	—	—	28.2	100.0	100.0	73.2	53.3	—	—	
Chemists, except biochemists	10	10	10	10	—	—	—	—	35.0	100.0	—	—	—	—	—	
Other natural scientists	10	10	10	10	—	—	—	—	35.0	100.0	—	—	—	—	—	
Health diagnosing occupations	21	13	8	13	8	—	—	—	30.0	100.0	100.0	100.0	100.0	—	—	
Health assessment and treating occupations	139	21	118	8	113	—	5	—	40.9	100.0	94.1	9.5	36.4	—	—	
Registered nurses	114	8	106	8	101	—	5	—	30.0	100.0	100.0	25.0	40.6	—	—	
Other health assessment and treating occupations	25	13	12	—	12	—	—	—	25	100.0	41.7	—	—	—	—	
Teachers, except postsecondary	1 452	193	1 259	117	1 062	65	129	12	174	34.5	68.9	58.1	15.0	4.2	9.3	5.1
Social scientists and urban planners	289	172	116	162	103	13	—	—	—	31.2	100.0	95.7	68.0	52.6	—	
Social and recreation workers	7	5	2	5	2	—	—	—	—	60.0	—	—	—	—	—	
Lawyers and judges	128	104	24	100	19	—	5	4	38.8	100.0	100.0	100.0	100.0	100.0	100.0	
Writers, artists, entertainers, and athletes	10 094	2 779	7 315	2 431	6 365	182	393	248	38.2	82.2	91.0	100.0	30.8	10.8	10.6	
Other professional specialty occupations	134	63	71	55	61	8	5	—	49.5	100.0	67.6	74.6	7.0	17.5	—	
Technical, sales, and administrative support occupations	142 217	49 812	92 405	40 727	80 269	5 651	7 378	5 863	35.6	75.1	79.8	18.4	4.3	2.6	0.7	
Technicians and related support occupations	3 591	1 830	1 761	1 635	1 506	133	150	63	114	32.9	90.8	78.9	27.7	12.9	1.1	0.7
Health technologists and technicians	49	6	43	6	17	—	19	—	25	100.0	65.1	—	—	—	—	
Licensed practical nurses	27	27	—	—	—	—	—	—	32.1	100.0	59.3	—	—	—	—	
Other health technologists and technicians	22	6	16	6	9	—	—	—	25	100.0	75.0	—	—	—	—	
Engineering and science technicians	2 042	910	1 132	821	989	71	86	53	66	34.5	87.3	74.1	25.8	10.3	0.4	0.5
Electrical and electronic technicians	147	135	12	108	12	27	—	18	—	38.8	80.7	100.0	9.6	—	—	
Industrial and mechanical engineering technicians	378	229	149	196	138	19	—	14	21	31.1	90.4	79.2	46.7	4.7	—	
Drafting and surveying technicians	427	189	238	176	170	9	30	25	38.5	76.7	73.1	19.0	19.7	1.1	2.5	
Other engineering and science technicians	1 090	357	733	341	669	16	56	21	33.2	93.3	83.0	22.1	8.6	1.1	—	
Technicians, except health, engineering, and science	1 500	914	586	808	500	62	45	10	30	31.9	94.2	89.2	29.8	18.8	1.8	1.0
Airplane pilots and navigators	33	33	—	33	—	—	—	—	36.9	100.0	100.0	51.5	—	—	—	
Air traffic controllers and broadcast equipment operators	11	5	6	5	—	—	6	—	40.0	100.0	100.0	—	—	—	—	
Computer programmers	1 026	612	414	545	351	32	28	10	24	30.6	97.9	94.4	33.2	17.9	2.6	
Other technicians, except health, engineering, and science	430	264	166	225	149	30	11	—	6	34.3	84.8	75.9	19.7	18.1	—	3.6

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Apparel and other finished textile products													
United States													
Employed persons 16 years and over—Con.													
Technical, sales, and administrative support occupations—Con.													
Sales occupations													
Supervisors and proprietors, sales occupations													
Sales representatives, finance and business services													
Sales representatives, commodities, except retail													
Sales workers, retail and personal services													
Cashiers													
Other sales occupations, retail and personal services													
Sales related occupations													
Administrative support occupations, including clerical													
Supervisors, administrative support occupations													
Computer equipment operators													
Secretaries, stenographers, and typists													
Secretaries													
Stenographers and typists													
Receptionists													
Other information clerks													
File clerks													
Other records processing occupations, except financial													
Bookkeepers, accounting, and auditing clerks													
Payroll and timekeeping clerks													
Other financial records processing occupations													
Telephone operators													
Mail and message distributing occupations													
Production coordinators and expeditors													
Traffic, shipping, and receiving clerks													
Stock and inventory clerks													
Other material recording, scheduling, and distributing clerks													
Adjusters and investigators													
Date-entry keyers													
Other administrative support occupations													
Service occupations													
Private household occupations													
Protective service occupations													
Guards													
Other protective service occupations													
Food preparation and service occupations													
Health service occupations													
Cleaning and building service occupations, except household													
Personal service occupations													
Farming, forestry, and fishing occupations													
Precision production, craft, and repair occupations													
Mechanics and repairers													
Supervisors, mechanics and repairers													
Automobile mechanics, including body													
Industrial machinery repairers													
Electronic repairers, communications and industrial equipment													
Heating, air conditioning, and refrigeration mechanics													
Other mechanics and repairers													
Construction trades													
Supervisors, construction occupations													
Carpenters													
Electricians													
Painters, construction and maintenance													
Plumbers, pipefitters, and steamfitters													
Other construction trades													
Persons of Spanish origin may be of any race													

Persons of Spanish origin may be of any race

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

Apparel and other finished textile products																
United States																
	Race				Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Precision production, craft, and repair occupations—Con																
Extraction occupations	52	25	27	25	4 184	5 931	—	—	39.1	47.9	68.0	100.0	8.0	—	—	—
Precision production occupations	108 801	47 363	61 438	38 722	17 855	29 801	8 124	10 355	42.9	42.4	55.8	49.0	5.6	2.6	2.5	1.8
Supervisors, production occupations	55 995	20 860	35 135	17 855	2 751	5 438	2 675	5 438	42.9	44.1	63.6	48.8	9.0	1.9	2.8	1.5
Precision metalworking occupations	5 312	3 049	2 263	2 607	254	304	306	389	42.6	38.2	57.6	57.5	4.2	7.3	0.2	1.3
Tool and die makers	444	437	7	404	27	—	6	—	41.6	30.0	77.6	100.0	5.3	—	—	—
Armatures	2 351	1 422	929	1 087	183	202	169	222	35.0	37.0	48.2	39.3	1.7	0.5	0.4	1.1
Other metalworking occupations	106	84	22	76	—	—	29	—	33.6	30.0	51.2	31.8	—	—	—	—
Other metalworking occupations	2 411	1 106	1 305	1 040	44	94	102	167	51.4	39.6	72.3	70.7	7.2	12.3	—	1.5
Precision textile, apparel, and furnishings machine workers	44 572	22 052	22 520	17 040	2 696	4 994	4 994	4 341	41.0	39.7	47.8	47.0	2.4	2.9	2.8	2.5
Precision food production occupations	169	99	70	55	30	35	30	29	41.9	36.7	34.3	54.3	—	—	6.1	—
Precision inspectors, testers, and related workers	91	17	74	9	8	13	—	10	25—	41.0	100.0	50.0	—	—	—	—
Plant and system operators	443	285	158	270	15	6	270	—	42.8	36.0	63.9	70.9	18.9	6.3	—	—
Other precision production occupations	2 219	1 001	1 218	886	69	126	119	153	47.1	36.5	64.2	72.0	6.0	9.4	—	0.8
Operators, fabricators, and laborers	934 973	108 729	826 244	74 525	17 397	123 323	26 437	128 747	32.2	39.0	41.7	41.8	1.9	1.0	1.3	0.7
Machine operators, assemblers, and inspectors	858 145	76 417	781 728	51 439	11 914	116 964	19 531	121 992	33.7	39.1	40.4	41.7	2.1	1.0	1.7	0.7
Machine operators and tenders, except precision	791 039	68 468	722 571	45 656	10 737	108 078	18 175	115 831	33.8	38.9	39.0	41.4	1.9	1.0	1.6	0.8
Metalworking and plastic working machine operators	1 169	469	700	300	136	66	85	95	32.2	37.4	47.3	39.6	4.1	2.0	—	—
Fabricating machine operators, n.e.c	468	88	380	70	11	38	35	80	29.7	32.3	39.8	52.6	—	—	—	—
Metal and plastic processing and woodworking machine operators	4 860	1 373	3 487	1 084	193	1 008	193	322	34.3	36.3	44.4	41.6	3.3	0.3	—	0.3
Printing machine operators	2 966	1 045	1 921	802	184	351	135	194	30.0	33.9	55.8	50.4	2.1	1.1	0.8	1.1
Textile machine operators	14 198	5 470	8 728	4 156	978	1 976	512	632	29.3	37.3	42.8	45.7	0.8	1.1	0.6	0.3
Textile sewing machine operators	652 806	29 457	623 349	18 294	4 399	87 095	10 564	100 800	34.1	38.9	36.3	41.5	2.2	1.0	2.6	0.8
Laundry and dry cleaning machine operators	1 162	466	696	391	46	170	131	208	40.3	36.2	27.5	35.9	1.9	—	—	—
Packaging and filling machine operators	2 035	302	1 733	192	79	216	43	173	29.4	34.9	40.1	48.3	—	2.4	—	—
Furnace, kiln, and oven operators, except food	263	208	55	150	50	—	8	7	35.9	28.4	42.8	50.9	—	—	—	—
Other specified machine operators	63 127	17 483	45 644	12 331	2 236	10 520	3 912	6 302	36.7	40.7	36.3	38.3	1.7	0.8	0.9	0.2
Miscellaneous and not specified machine operators	48 005	12 107	35 898	7 977	2 425	6 638	2 557	7 018	32.5	38.4	45.6	42.1	1.8	1.0	1.3	0.3
Fabricators, assemblers, and hand working occupations	17 126	4 284	12 842	3 014	681	2 342	837	1 969	31.2	36.7	50.7	45.4	3.4	1.4	3.6	0.9
Welders and others	676	524	152	423	65	63	52	14	32.7	33.0	63.0	46.7	0.8	—	1.1	—
Solders and brazers	64	17	47	—	11	15	6	7	32.7	26.5	—	68.1	—	—	—	—
Assemblers	12 670	2 853	9 817	1 945	493	1 889	615	1 582	29.6	35.3	48.8	47.1	3.7	1.2	4.6	0.7
Hand working occupations	3 716	890	2 826	646	112	375	164	366	35.3	42.0	50.7	38.7	4.2	2.1	2.0	1.6
Production inspectors, testers, samplers, and weighers	49 960	3 665	46 295	2 769	496	6 544	519	4 192	35.4	42.7	54.3	44.2	3.5	0.8	0.4	0.1
Graders and sorters, except agricultural	3 112	728	2 384	479	121	275	55	237	42.2	42.3	48.5	48.4	3.3	0.9	—	0.3
Other production inspectors, testers, samplers, and weighers	46 848	2 937	43 911	2 290	375	6 269	464	3 955	34.5	42.8	55.7	44.0	3.6	0.8	0.5	0.1
Transportation and material moving occupations	18 260	10 669	7 591	7 780	1 734	783	2 315	1 440	31.8	41.2	44.0	39.5	2.1	1.2	0.7	0.1
Transportation occupations	5 722	5 517	205	4 075	755	64	1 348	42	35.5	30.4	43.9	60.0	2.5	4.4	1.0	5.4
Motor vehicle operators	5 690	5 499	191	4 057	755	56	1 348	42	35.5	30.1	44.0	64.4	2.3	4.7	1.0	5.8
Truck drivers	5 200	5 039	161	3 734	82	666	188	42	35.3	31.6	44.4	62.7	2.3	5.6	1.1	6.8
Driver-sales workers	179	161	18	131	22	5	24	24	47.7	25—	48.4	83.3	4.3	—	—	—
Other motor vehicle operators	311	299	12	192	7	5	136	—	35.2	26.4	33.8	58.3	2.3	—	—	—
Rail and water transportation occupations	32	18	14	18	6	8	—	—	42.5	33.8	38.9	—	38.9	—	—	—
Material moving equipment operators	12 538	5 152	7 386	3 705	979	719	967	1 398	28.3	41.6	44.1	38.9	1.8	1.1	0.3	—
Supervisors, material moving equipment operators	115	72	43	47	8	—	18	—	29.7	42.0	69.4	100.0	—	—	—	—
Crane, hoist and winch operators	25	19	6	19	—	—	6	—	40.8	30.0	63.2	100.0	—	—	—	—
Excavating, grading, and dozer machine operators	31	13	18	4	9	—	—	—	32.2	25—	69.2	88.9	—	—	—	—
Other material moving equipment operators	12 367	5 048	7 319	3 635	962	719	943	1 393	28.2	41.7	43.6	38.4	1.8	1.1	0.3	—
Handlers, equipment cleaners, helpers, and laborers	58 568	21 643	36 925	15 306	3 749	5 576	4 591	5 315	26.7	36.7	45.0	44.6	1.2	0.9	0.3	0.2
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	58	47	11	47	92	4	—	—	42.4	62.0	78.7	—	—	0.9	—	—
Helpers, craft and production	1 218	558	660	363	6	80	244	306	35—	36.5	36.0	31.2	0.4	—	—	0.6
Construction laborers	141	90	51	78	6	7	12	—	31.7	43.3	64.4	29.4	8.9	—	—	—
Freight, stock, and material handlers	10 301	4 624	5 677	3 399	869	741	764	350	25—	34.9	45.4	47.7	1.4	0.6	0.1	—
Gauge and service station occupations, and equipment cleaners	1 814	587	1 227	405	75	255	96	254	34.0	48.3	24.9	23.1	0.7	—	—	—
Hand packers and packagers	24 904	7 031	17 873	4 656	1 294	2 686	1 900	2 722	26.6	36.8	42.1	44.7	0.7	0.9	0.3	0.2
Laborers, except construction	20 132	8 706	11 426	6 358	1 413	1 803	1 485	1 683	28.0	36.1	48.6	46.3	1.5	1.1	0.4	0.3

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Paper and allied products																	
	Race						Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total			White			Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Employed persons 16 years and over																		
679 921	517 375	162 546	450 291	137 535	50 747	18 664	26 079	9 632	38.0	36.2	70.7	68.9	11.6	5.0	0.4	0.3		
73 072	61 927	11 145	59 392	10 173	1 427	672	1 091	234	41.8	34.4	94.2	94.1	55.5	29.8	1.0	0.9		
52 966	44 807	8 159	43 156	7 448	1 016	491	821	163	43.1	34.8	93.0	93.5	52.7	26.1	1.0	0.7		
2 462	2 092	370	2 026	331	29	32			40.0	33.8	98.1	90.8	76.6	25.7				
6 533	6 002	531	5 943	487	37	38	92	20	42.8	34.4	98.6	99.2	61.2	30.5	0.6			
26	21	5	17	5	4				50.4	50.0	85.7	100.0	33.3			100.0		
2 426	1 884	542	1 752	507	100	20	42	9	43.0	36.3	94.6	95.0	60.1	31.4	0.3	1.3		
28 615	25 993	2 622	25 017	2 454	594	121	540	42	44.7	39.0	91.0	89.9	48.7	22.0	1.4	1.3		
28 204	25 639	2 565	24 695	2 404	586	121	509	35	44.7	38.9	91.3	89.9	48.9	21.9				
411	354	57	322	50	8		31	7	44.3	42.6	70.9	87.7	28.2	22.8	99.2	61.4		
12 902	8 813	4 089	8 396	3 664	252	280	147	92	38.8	33.1	93.6	95.2	51.9	27.5	0.8	0.2		
6 260	4 078	2 182	3 863	1 903	98	170	56	45	35.9	32.1	98.9	96.3	69.8	30.7	0.3	0.3		
2 442	1 669	773	1 573	702	60	47	55	8	40.1	33.6	81.8	87.5	32.5	31.3	0.4			
3 113	2 259	854	2 206	800	41	48	28	39	42.6	34.6	92.7	92.5	32.8	12.4	0.6	0.4		
82	49	33	47	28	2		6		49.4	39.5	75.5	33.3	24.5					
1 005	758	247	707	231	51	10	2		41.3	33.5	95.4	95.5	56.5	42.9	4.4			
20 106	17 120	2 986	16 236	2 725	411	181	270	71	38.0	33.3	97.4	95.6	62.5	39.9	0.8	1.6		
10 832	10 212	620	9 700	584	211	14	117	6	38.1	29.2	98.4	94.4	64.9	36.3	0.4			
7	7		7						30.0		100.0		100.0					
10 767	10 147	620	9 635	584	211	14	117	6	38.2	29.2	98.5	94.4	65.3	36.3	0.4			
353	346	7	334	7	5		10		42.4	25	96.8	100.0	76.9	100.0				
738	725	13	697	13	17		14		34.9	25	98.2	100.0	68.0	100.0				
2 825	2 441	384	2 369	377	16		23		38.1	25	97.5	100.0	57.7	50.0	0.7			
1 707	1 691	16	1 627	16	38		24		41.5	25	98.9	97.5	37.0	66.0	0.5			
5 144	4 944	200	4 608	171	135	14	46	6	33.4		87.9		73.0					
58	58		58															
882	733	149	667	131	40	18	11	7	33.7	29.6	99.3	100.0	63.0	67.8	1.0	8.1		
490	412	78	406	78					38.7	32.7	93.2	100.0	57.8	41.0				
151	83	68	83						39.0	28.3	100.0	100.0	69.9	25.0				
2 887	2 633	254	2 518	180	74	54	12	3	37.2	31.4	96.9	94.9	74.1	68.9	0.3			
1 444	1 257	187	1 173	134	43	33	12	3	39.8	30.9	98.0	100.0	68.3	62.9	0.6			
1 443	1 376	67	1 345	46	31	21			34.4	33.5	95.9	80.6	79.4	29.9				
22	22		22						50.7		100.0		100.0					
616	19	597	19	571		26			46.7	52.1	100.0	98.8	68.4	16.1				
607	10	597	10	571		26			57.9	52.1	100.0	98.8	70.0	16.1				
9	9		9						32.5		100.0		66.7					
132	102	30	88	30	14		8		31.5	25.0	86.3	66.7	19.6					
468	335	133	305	120	22	8	34		36.5	32.2	100.0	100.0	84.2	59.4				
24	2	22	2	15					50.0	40.7	100.0	100.0	100.0					
272	240	32	240	25	50		53		41.3	30.9	100.0	100.0	100.0	100.0	3.3			
3 182	2 276	906	2 135	841	50	41	88	2	40.5	32.1	93.8	94.7	34.0	41.6	2.2	3.9		
148	51	97	51	82		13			33.9	42.2	82.4	97.9	23.5	57.7	41.2			
114 781	58 428	56 353	53 662	52 183	3 619	3 147	1 660	1 326	39.5	34.6	85.2	90.3	24.1	6.4	0.5	0.2		
15 410	12 263	3 147	11 568	2 869	529	231	214	79	36.3	32.6	90.7	87.4	18.6	14.6	0.4	0.2		
176	99	77	99	77					48.4	42.5	66.7	81.8	25.3	7.8				
51																		
125	99	26	99	26					48.4	36.0	66.7	72.5		23.1				
10 990	8 808	2 182	8 374	1 979	339	183	153	53	37.6	34.2	89.4	84.3	14.4	10.1	0.4			
764	715	49	695	49	8		20	8	36.0	34.2	90.9	81.6	9.1					
1 920	1 627	293	1 550	264	77	29	17	9	40.7	43.3	82.7	81.6	9.5	2.0				
1 507	1 328	179	1 246	156	60	13	47	21	33.5	29.8	96.6	97.2	12.6	11.7	0.5			
6 799	5 138	1 661	4 883	1 510	194	141	69	15	37.9	33.8	89.5	83.5	17.1	11.7	0.6			
4 244	3 356	888	3 095	813	190	48	61	26	33.7	29.3	94.8	95.5	29.7	26.1	0.3	0.7		
137	137		137		7				40.1		100.0		38.0					
38	24	14	17	6	7	8		8	53.3	30.0	70.8	42.9	45.8					
1 317	888	429	820	389	28	13	8	5	31.2	27.9	98.4	100.0	35.4	32.2				
2 752	2 307	445	2 121	418	155	27	53	13	34.3	30.8	93.3	92.8	26.8	21.1	0.5	1.3		

¹Persons of Spanish origin may be of any race

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States		Paper and allied products										Percent self-employed	
		Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
		Total		White		Black		Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male						
20 455	17 255	3 200	16 700	3 020	382	118	194	81	40.4	33.5	95.5	92.7	17.9
987	855	132	830	126	9	—	16	6	41.8	35.4	92.9	93.9	20.5
942	810	132	810	126	9	—	16	6	42.0	35.4	93.7	94.5	20.5
45	45	—	45	—	—	—	—	—	35.7	—	77.8	—	—
69	48	21	42	21	6	—	—	—	39.3	—	90.5	—	—
18 994	16 174	2 820	15 676	2 651	347	113	172	75	40.4	33.8	95.9	93.6	19.0
400	273	227	147	222	20	5	6	—	36.9	40.4	93.2	93.6	49.0
136	74	112	142	107	12	5	—	—	51.6	40.4	77.5	81.1	18.5
264	149	115	135	115	8	—	6	—	34.0	32.3	85.2	85.2	7.0
5	5	—	5	—	—	—	—	—	40.0	—	100.0	—	—
78 916	28 910	50 006	25 394	46 294	2 708	2 798	1 252	1 166	40.3	34.8	76.8	90.3	5.2
6 022	4 484	1 538	4 181	1 424	240	93	132	30	43.8	40.4	83.9	94.4	12.3
2 572	1 075	1 497	840	1 365	165	114	56	18	31.7	31.7	90.3	92.8	1.1
18 997	148	16 849	136	17 771	12	835	—	—	39.2	34.0	87.8	95.5	4.9
16 913	92	16 821	90	15 923	2	706	—	—	47.5	34.0	82.6	95.9	5.2
2 084	56	2 028	46	1 848	10	129	—	—	28.8	32.0	96.4	92.2	2.8
1 361	14	1 347	14	1 226	1	59	—	—	25	32.7	100.0	92.2	2.2
380	100	280	86	255	14	11	18	12	44.4	31.2	86.0	95.4	33.0
1 658	677	981	625	905	35	50	18	75	38.1	34.4	83.5	94.4	4.6
2 939	991	1 948	858	1 770	76	131	62	58	38.8	34.3	78.6	90.3	15.0
7 221	890	6 331	5 862	821	49	347	21	101	42.5	38.1	93.5	92.6	6.2
1 851	288	1 563	272	1 489	16	61	8	15	48.2	38.9	87.2	90.5	17.4
1 887	283	1 604	244	1 444	33	113	10	38	43.3	34.5	92.9	94.5	3.9
505	44	461	44	424	—	—	—	—	31.1	42.9	59.1	77.7	—
929	533	396	358	369	170	27	32	20	37.2	29.5	70.2	73.7	1.5
3 751	2 316	1 435	2 101	1 338	157	80	91	24	40.5	35.9	85.5	83.6	17.1
9 081	7 823	1 258	6 565	1 105	972	119	512	24	37.6	34.2	66.7	75.8	9.1
5 213	3 842	1 371	3 456	1 242	284	90	139	53	41.5	34.7	70.2	86.4	3.6
1 799	1 330	469	1 168	403	138	59	39	10	40.4	41.9	70.8	62.0	6.1
1 312	621	691	577	649	24	26	15	6	38.9	34.2	76.2	93.5	10.4
2 294	352	1 942	284	1 636	41	237	47	31	33.4	31.6	71.0	90.5	5.4
9 144	3 099	6 045	2 764	5 617	282	316	70	105	41.2	37.1	83.3	83.0	18.0
16 079	13 899	2 180	11 864	1 589	1 697	553	573	24	45.3	45.0	55.6	50.0	0.6
3 074	2 843	231	2 549	205	258	20	30	—	52.0	45.1	54.2	54.5	3.2
2 769	2 538	231	2 264	205	238	20	30	—	52.5	45.1	53.7	54.5	3.0
305	305	—	285	—	20	—	—	—	49.5	—	58.7	—	—
13 005	11 056	1 949	9 315	1 384	1 439	533	543	24	43.1	45.0	56.0	49.5	0.6
640	343	297	241	195	92	94	15	—	42.2	52.4	60.6	42.4	2.6
93	10	83	—	77	—	6	—	—	50.0	48.3	100.0	86.7	—
12 064	10 567	1 497	8 954	1 040	1 337	433	512	24	43.1	43.8	55.7	48.2	1.9
208	136	72	120	72	10	—	16	—	45.7	34.7	61.8	63.9	16.7
1 577	1 446	131	1 194	101	223	16	12	—	36.0	32.4	67.6	64.9	5.3
116 040	110 848	5 192	102 752	4 344	6 066	608	3 702	311	41.9	39.4	71.9	63.2	5.6
39 578	38 598	980	35 815	884	2 023	83	1 397	43	40.2	33.0	69.5	64.5	1.9
861	861	—	812	—	30	—	12	—	46.2	—	78.5	—	—
17 084	16 424	660	15 082	599	949	48	728	24	40.4	40.0	100.0	2.8	—
275	261	14	247	6	14	8	—	—	37.6	30.0	78.2	100.0	9.6
127	127	—	125	—	2	—	—	—	32.2	—	81.9	—	—
20 320	20 021	299	18 735	272	982	27	615	19	41.3	33.6	71.1	74.6	4.7
16 668	16 537	131	15 660	108	709	19	230	13	40.8	33.6	78.6	38.2	3.1
780	780	—	754	—	5	—	49	—	46.8	—	82.1	—	—
1 497	1 480	17	1 390	17	5	—	—	—	40.5	25	5.9	5.9	14.4
8 132	8 085	47	7 749	37	245	6	111	—	40.3	37.8	84.5	34.0	—
644	637	7	510	6	127	—	—	—	44.0	36.0	92.3	28.6	—
4 871	4 849	22	4 651	15	178	7	27	—	40.9	31.2	76.8	31.1	—
744	706	38	596	32	100	6	31	7	37.6	38.8	68.4	39.5	2.3

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																
Employed persons 16 years and over—Con.																
	Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
	Both sexes	Male	Female	Male	Female	Male										
Precision production, craft, and repair occupations—Con.																
Extraction occupations	87	69	18	43	6	506	—	—	31.6	47.0	89.9	44.4	10.1	—	—	—
Precision production occupations	59 707	55 644	4 063	3 334	3 328	2 019	2 075	255	43.4	41.2	71.5	63.8	9.1	6.6	0.3	0.3
Supervisors, production occupations	43 010	39 964	3 046	2 571	2 019	1 315	1 460	173	44.0	41.2	72.7	65.8	11.3	8.5	0.3	0.2
Precision metalworking occupations	11 062	10 445	617	432	1 005	162	471	56	46.0	36.6	67.8	48.5	1.7	0.8	—	—
Tool and die makers	1 794	1 742	52	48	21	167	112	41	46.0	25.0	65.2	74.9	2.2	—	—	—
Machinists	8 036	7 555	481	306	933	158	321	41	39.7	36.9	67.3	43.0	1.7	—	—	—
Sheet metal workers	358	343	15	3	—	—	—	—	42.8	34.4	77.3	73.3	0.9	—	—	—
Other metalworking occupations	674	633	63	15	51	—	38	11	40.0	40.0	73.5	59.4	0.7	7.2	0.2	—
Precision textile, apparel, and furnishings machine workers	168	101	67	101	—	—	17	—	25.0	50.0	43.6	57.1	6.9	—	—	—
Precision food production occupations	91	77	14	77	—	—	15	2	42.4	30.8	57.1	57.1	—	—	—	—
Precision inspectors, testers, and related workers	121	95	26	83	10	—	5	—	35.4	36.9	91.6	38.5	4.2	—	—	—
Plant and system operators	4 814	4 696	118	4 387	273	—	69	6	43.4	35.0	71.4	72.0	7.3	5.1	—	5.1
Other precision production occupations	441	266	175	229	21	34	34	13	40.6	40.8	57.5	74.3	3.0	—	—	—
Operators, fabricators, and laborers	358 372	270 827	87 545	221 427	37 715	13 668	19 041	7 737	34.4	37.1	62.4	52.8	1.7	1.1	0.2	0.2
Machine operators, assemblers, and inspectors	250 141	186 384	63 757	154 336	23 841	9 961	13 593	5 268	34.6	37.8	63.9	52.3	1.8	1.1	0.2	0.1
Machine operators and tenders, except precision	217 278	170 341	46 937	140 909	21 888	7 483	12 611	4 045	34.5	37.2	63.7	52.0	1.7	1.0	0.2	0.1
Metalworking and plastic working machine operators	3 087	2 548	539	2 033	378	54	183	23	36.8	38.0	61.9	46.2	0.9	—	0.4	—
Fabricating machine operators, n.e.c.	733	436	297	349	75	14	32	—	31.7	40.7	63.8	58.2	2.5	—	—	—
Metal and plastic processing and woodworking machine operators	10 549	8 843	1 706	7 443	1 151	240	434	52	33.5	41.3	61.4	44.7	1.2	0.9	0.3	—
Printing machine operators	14 286	12 835	1 451	11 119	1 077	161	1 094	77	34.6	37.6	67.0	62.5	1.7	1.4	0.1	0.3
Textile machine operators	2 682	2 228	454	2 049	398	150	29	22	34.6	41.6	68.4	54.6	1.4	1.3	—	—
Textile sewing machine operators	1 845	581	1 264	439	962	93	73	115	33.9	40.9	57.8	44.9	1.2	0.5	—	0.4
Laundry and dry cleaning machine operators	81	70	11	48	22	192	—	—	39.0	50.0	57.1	54.5	—	—	—	—
Packaging and filling machine operators	3 437	1 692	1 745	1 371	250	13	123	174	33.1	36.9	65.6	45.6	1.2	0.7	—	—
Furnace, kiln, and oven operators, except food	4 716	4 670	46	4 262	367	13	43	—	40.0	41.3	69.1	28.3	1.1	—	0.2	—
Other specified machine operators	43 646	35 109	8 537	29 234	4 652	1 298	1 970	673	34.5	37.3	61.3	52.4	1.6	1.4	0.4	0.1
Miscellaneous and not specified machine operators	132 216	101 329	30 887	82 562	13 673	5 249	8 630	2 909	34.4	36.7	64.0	52.4	1.9	1.0	0.1	—
Fabricators, assemblers, and hand working occupations	18 373	10 528	7 845	6 641	1 366	1 225	807	799	34.6	36.8	62.0	54.0	1.2	1.6	0.2	0.3
Welders and cutters	3 971	3 862	109	3 608	190	22	125	7	38.6	27.4	69.0	80.7	0.1	—	—	—
Solders and brazers	53	32	21	19	7	16	—	—	25	41.6	59.4	53.6	21.9	1.7	—	—
Assemblers	12 755	5 458	7 297	4 014	1 022	1 022	653	774	31.1	36.5	56.9	56.6	1.5	—	—	0.3
Hand working occupations	1 594	1 176	418	1 000	147	85	29	18	38.8	43.2	62.8	56.7	1.9	—	0.9	—
Production inspectors, testers, samplers, and weighers	14 490	5 515	8 975	4 786	587	1 253	1 75	424	39.4	42.3	74.2	52.7	3.9	0.9	0.4	—
Graders and sorters, except agricultural	1 790	756	1 034	552	164	185	36	39	38.0	39.9	60.3	49.7	—	0.6	0.8	0.2
Other production inspectors, testers, samplers, and weighers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Transportation and material moving occupations	45 451	42 942	2 509	34 862	6 621	387	2 409	182	36.6	32.8	55.3	64.8	1.2	1.1	0.4	2.2
Transportation occupations	17 289	16 923	366	13 582	2 997	103	2 902	20	39.5	37.3	49.0	53.0	1.5	2.5	0.9	13.1
Motor vehicle operators	16 932	16 588	344	13 286	2 765	103	2 662	20	39.5	37.3	48.9	50.0	1.5	2.6	0.9	14.0
Truck drivers	16 286	15 962	326	12 893	2 630	105	2 525	20	39.5	37.2	49.2	49.1	1.5	2.8	1.0	14.7
Driver-sales workers	55	55	6	42	13	—	787	—	30.9	30.0	60.0	100.0	—	—	—	—
Other motor vehicle operators	583	571	12	351	11	122	115	—	35.4	45.0	38.5	50.0	—	—	—	—
Rail and water transportation occupations	357	335	22	309	14	8	—	—	42.6	37.5	54.0	100.0	—	—	—	—
Material moving equipment operators	28 162	26 019	2 143	21 267	3 814	274	1 507	162	34.5	32.2	59.4	66.8	1.1	0.8	0.1	0.3
Supervisors, material moving equipment operators	423	418	5	397	5	—	5	—	48.9	40.0	78.9	66.8	9.1	—	—	—
Crane, hoist and winch operators	1 951	1 920	31	1 541	346	6	44	—	40.5	42.5	63.4	90.3	0.7	—	0.3	—
Excavating, grading, and dozer machine operators	715	710	5	576	2	119	3	—	36.3	25	52.7	60.0	—	—	—	—
Other material moving equipment operators	25 073	22 971	2 102	18 753	3 338	265	1 452	162	34.0	32.3	59.0	66.7	1.0	0.9	0.1	0.3
Handlers, equipment cleaners, helpers, and laborers	62 780	41 501	21 279	32 229	7 253	3 320	3 039	2 287	31.6	35.5	63.0	52.8	2.1	0.9	0.3	0.1
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	88	88	—	83	5	—	—	—	37.0	—	92.0	—	8.0	—	—	—
Helpers, craft and production	5 482	4 785	697	3 856	714	111	433	103	32.0	36.1	63.7	55.4	2.0	—	0.2	—
Construction laborers	710	695	15	628	56	—	26	—	32.6	58.2	63.9	72.6	1.6	—	—	—
Freight, stock, and material handlers	11 716	9 545	2 171	7 653	1 506	397	504	193	32.1	36.0	60.7	48.9	1.4	0.3	0.2	—
Garage and service station occupations, and equipment cleaners	854	764	90	653	106	21	18	—	32.8	31.6	61.6	67.8	1.0	—	1.6	—
Hand packers and packagers	19 659	6 244	13 415	4 789	937	1 979	773	1 578	30.3	36.4	63.3	52.9	2.3	1.0	0.5	—
Laborers, except construction	24 271	19 380	4 891	14 567	3 929	812	1 285	413	31.5	33.3	63.6	53.9	2.5	1.2	0.5	0.6

¹Persons of Spanish origin may be of any race

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																	
Printing, publishing, and allied industries																	
	Total			Race			Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Both sexes			White			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
	Male	Female		Male	Female		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over	1 531 029	905 722	625 307	822 330	565 487	54 315	41 349	44 038	25 464	35.9	33.7	79.2	82.5	19.8	16.4	4.6	3.0
Managerial and professional specialty occupations	363 486	231 380	132 106	220 018	124 980	6 108	4 408	5 624	2 779	39.0	33.2	94.7	95.3	48.6	45.0	7.9	6.5
Executive, administrative, and managerial occupations	172 860	125 715	47 145	120 248	44 197	3 044	1 876	2 978	1 260	41.8	35.8	93.7	93.6	40.4	27.0	9.4	6.7
Officials and administrators, public administration	6	6		6						65+		100.0					
Financial managers	5 135	3 448	1 687	3 341	1 614	72	39	80	38	39.2	37.6	98.3	94.7	67.5	21.1	1.2	1.6
Managers, marketing, advertising, and public relations	33 841	25 703	8 138	24 566	7 880	748	171	639	159	39.0	34.0	94.9	93.2	39.7	29.2	1.5	1.6
Administrators, education and related fields	113	55	58	55	58					50.9	48.6	96.4	100.0	38.2	41.4	23.6	
Managers, medicine and health																	
Other specified managers	4 095	2 707	1 388	2 592	1 274	76	95	95	18	41.2	39.2	93.9	96.4	44.8	30.8	2.9	2.2
Managers and administrators, n.e.c.	110 470	82 774	27 696	79 550	26 295	1 682	838	1 897	734	43.2	37.3	92.8	93.5	37.8	26.5	13.3	10.3
Salaries	95 789	71 510	24 279	68 812	22 997	1 464	800	1 619	659	42.9	36.3	93.2	93.5	38.4	26.4	98.0	83.3
Self-employed	14 681	11 264	3 417	10 738	3 298	218	38	278	35	45.5	43.0	90.7	93.5	34.0	27.1	98.0	83.3
Management related occupations	19 200	11 022	8 178	10 138	7 076	466	733	267	311	37.0	33.3	95.7	93.4	52.3	26.7	2.7	1.3
Accountants and auditors	10 262	5 941	4 321	5 346	3 255	257	300	135	179	34.1	32.5	98.9	96.6	66.5	28.8	1.7	0.6
Personnel, training, and labor relations specialists	3 411	1 927	1 484	1 755	1 246	138	174	53	75	40.0	34.3	87.7	91.2	30.3	29.8	3.1	0.7
Buyers and purchasing agents	2 881	1 610	1 271	1 549	1 124	43	127	11	48	37.1	34.6	93.7	91.2	27.5	12.9	0.9	1.2
Inspectors and compliance officers	114	54	60	54	14					37.5	45.0	100.0	70.0	31.5	45.0	13.0	
Other management related occupations	2 532	1 490	1 042	1 434	937	28	86	68	9	43.8	33.2	95.4	91.4	51.4	32.1	7.7	5.4
Professional specialty occupations	190 626	105 665	84 961	99 770	80 783	3 064	2 532	2 646	1 519	34.7	32.1	96.0	96.3	58.3	55.0	6.0	6.5
Engineers, architects, and surveyors	4 036	3 545	491	3 289	462	128	23	50	20	39.5	31.8	96.1	95.7	48.4	29.5	1.0	1.0
Architects	51	38	13	32	13	6				45.0	26.9	100.0	100.0	68.4	100.0		38.5
Engineers	3 982	3 484	478	3 234	449	122	23	50	20	39.5	31.9	96.0	95.6	48.5	27.6	1.0	
Civil engineers	88	88		81						37.3	40.0	87.5		52.3			
Electrical and electronic engineers	408	402	6	320	407	52		9		36.5	40.0	100.0		62.4		3.0	
Industrial engineers	1 733	1 303	430	1 255	407	18	23	7	20	37.3	31.8	97.7	96.5	40.9	27.7	0.5	
Mechanical engineers	659	654	5	624	5	17		18		46.2	40.0	92.0	100.0	47.4			
Other engineers	1 074	1 037	37	954	37	28		16		40.2	30.8	95.6	100.0	52.8	35.1	1.5	
Surveyors and mapping scientists	23	23		23						30.7		100.0		13.0			
Computer systems analysts and scientists	1 585	1 220	365	1 132	335	72	26	31		34.2	33.5	97.7	99.2	43.2	37.5	1.1	
Operations and systems researchers and analysts	794	543	251	499	217	17	34	5		33.9	31.6	97.6	91.6	51.0	36.4		
Mathematical scientists	456	166	290	141	256	12	18			36.8	32.5	92.8	96.2	42.2	37.9		
Natural scientists	440	316	124	270	95	25	5		6	40.8	38.7	98.1	90.3	74.7	55.6		7.3
Chemists, except biochemists	313	263	50	217	27	25	5		6	40.2	38.0	97.7	88.0	76.0	70.0		
Other natural scientists	127	53	74	53	68					42.6	39.1	100.0	91.9	67.9	45.9		12.2
Health diagnosing occupations	78	47	31	47	31			7		56.3	32.4	100.0	93.5	78.7	54.8	27.7	54.8
Health assessment and treating occupations	608	198	410	183	400	6	10	5		34.7	46.0	97.5	100.0	69.2	33.2	4.0	0.7
Registered nurses	557	170	387	155	382	6	5	5		37.0	45.8	97.1	100.0	75.3	30.5	4.7	0.8
Other health assessment and treating occupations	51	28	23	28	18					30.4	49.2	100.0	100.0	32.1	78.3		
Teachers, except postsecondary	492	220	272	214	234	6	23			34.1	32.7	96.4	90.4	57.3	48.5	4.5	8.1
Social scientists and urban planners	2 162	1 151	1 011	1 116	924	11	53	30	20	36.5	31.0	98.1	98.1	73.5	47.0	4.7	0.5
Social and recreation workers	166	93	73	87	59	6	14	2		40.7	27.0	88.2	90.4	33.3	42.5	7.5	9.9
Lower and judges	638	496	142	485	136	7	6	4	12	35.4	31.9	95.8	98.6	91.5	66.9	6.3	6.6
Writers, artists, entertainers, and athletes	177 504	96 937	80 567	91 654	76 807	2 735	2 242	2 471	1 434	34.5	32.1	95.9	96.3	58.6	55.3	6.4	6.4
Other professional specialty occupations	1 667	733	934	653	827	37	78	41	27	34.4	34.4	94.7	93.7	45.6	62.1		
Technical, sales, and administrative support occupations	508 859	208 032	300 827	189 840	272 967	12 451	19 643	8 566	10 869	33.6	32.5	72.8	85.4	21.0	10.8	4.8	2.2
Technicians and related support occupations	20 048	14 229	5 819	13 016	5 178	614	442	716	217	33.5	31.5	90.0	90.9	19.3	29.2	1.3	2.8
Health technicians and technicians	166	88	78	88	49					37.9	29.5	93.2	100.0	37.5	46.2		
Licensed practical nurses	48	17	31	17	9			3	3	25	25.7	100.0	100.0		48.4		
Other health technicians and technicians	118	71	47	71	40					38.6	31.5	91.5	100.0	46.5	44.7		
Engineering and science technicians	12 423	9 606	2 817	8 835	2 583	366	162	563	117	34.6	31.4	88.4	88.5	11.9	18.4	1.4	1.8
Electrical and electronic technicians	7 384	6 295	1 089	5 829	984	221	77	387	47	34.6	31.4	86.2	84.9	6.2	12.2	0.5	0.7
Industrial and mechanical engineering technicians	80	42	38	42	29					50.6	30.5	93.3	76.3	14.3			
Drafting and surveying technicians	2 652	1 612	1 040	1 448	967	71	45	130	45	32.4	31.3	92.6	93.3	21.6	25.3	5.7	2.5
Other engineering and science technicians	2 307	1 657	650	1 516	603	74	31	46	25	37.4	32.1	92.5	87.7	23.8	18.9	0.4	2.8
Technicians, except health, engineering, and science	7 459	4 535	2 924	4 093	2 546	248	259	153	97	31.7	31.6	93.3	93.0	34.7	39.1	1.3	3.8
Airplane pilots and navigators	130	130		130						39.0	20.0	93.8		20.4			
Air traffic controllers and broadcast equipment operators	104	37	67	67	19			12		33.5	25	91.0	100.0	10.4			
Computer programmers	4 196	2 816	1 380	2 534	1 200	167	116	72	24	33.3	33.3	95.9	95.3	36.9	34.2	1.0	1.2
Other technicians, except health, engineering, and science	3 029	1 522	1 507	1 362	1 327	81	125	69	73	32.1	33.4	88.5	90.6	33.0	44.5	2.1	6.4

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																
Printing, publishing, and allied industries																
	Race				Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White													
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Employed persons 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations																
Supervisors and proprietors, sales occupations																
Salaries																
Self-employed																
Sales representatives, finance and business services																
Sales representatives, commodities, except retail																
Sales workers, retail and personal services																
Cashiers																
Other sales occupations, retail and personal services																
Sales related occupations																
Administrative support occupations, including clerical																
Supervisors, administrative support occupations																
Computer equipment operators																
Secretaries, stenographers, and typists																
Stenographers and typists																
Receptionists																
Other information clerks																
File clerks																
Other records processing occupations, except financial																
Bookkeepers, accounting, and auditing clerks																
Payroll and timekeeping clerks																
Other financial records processing occupations																
Telephone operators																
Mail and message distributing occupations																
Production coordinators and expeditors																
Traffic, shipping, and receiving clerks																
Stock and inventory clerks																
Other material recording, scheduling, and distributing clerks																
Adjusters and investigators																
Data-entry keyers																
Other administrative support occupations																
Service occupations																
Private household occupations																
Protective service occupations																
Guards																
Other protective service occupations																
Food preparation and service occupation																
Health service occupations																
Cleaning and building service occupations, except household																
Personal service occupations																
Farming, forestry, and fishing occupations																
Precision production, craft, and repair occupations																
Mechanics and repairers																
Supervisors, mechanics and repairers																
Automobile mechanics, including body																
Industrial machinery repairers																
Electronic repairers, communications and industrial equipment																
Heating, air conditioning, and refrigeration mechanics																
Other mechanics and repairers																
Construction trades																
Supervisors, construction occupations																
Carpenters																
Electricians																
Painters, construction and maintenance																
Plumbers, pipefitters, and steamfitters																
Other construction trades																

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States														
Printing, publishing, and allied industries														
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female
	Both sexes	Male	Female	Male	Female	Male								
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con														
Extractive occupations	45	35	10	35	27	288	10	2 781	—	29 5	38 8	100 0	—	—
Precision production occupations	106 648	75 372	31 276	69 375	27 288	4 441	3 807	2 781	—	40 8	38 4	88 6	9 4	7 7
Supervisors, production occupations	68 569	54 142	14 427	50 413	12 913	1 851	2 451	1 066	646	40 8	38 5	82 5	11 6	13 4
Precision metalworking occupations	9 771	8 006	1 765	7 402	1 470	303	363	229	353	41 4	33 2	75 4	3 2	8 7
Tool and die makers	703	673	30	673	30	—	24	—	8	37 4	30 0	100 0	5 2	—
Machinists	3 748	3 371	377	3 087	224	124	226	124	61	41 4	31 0	69 7	1 3	—
Sheet metal workers	163	157	6	157	6	—	—	—	4	29 6	50 0	70 7	—	—
Other precision metal workers	5 157	3 805	1 352	3 547	1 210	113	105	105	201	42 6	33 7	79 2	4 6	11 3
Precision textile, apparel, and furnishings machine workers	148	36	112	24	84	—	—	—	20	31 7	42 1	41 7	13 9	14 4
Precision food production occupations	339	259	80	224	60	—	25	20	13	35 3	34 1	65 3	1 5	8 8
Precision inspectors, testers, and related workers	120	77	43	61	43	—	10	—	—	42 2	29 8	92 2	19 5	—
Plant and system operators	961	882	79	789	72	7	70	7	30	42 2	36 5	76 6	8 2	6 3
Other precision production occupations	26 740	11 970	14 770	10 462	12 646	888	1 391	888	1 232	34 6	39 0	70 7	3 6	2 0
Operators, fabricators, and laborers	513 331	357 627	155 704	315 715	136 343	27 176	13 185	13 185	24 337	34 2	33 4	74 5	4 1	5 0
Machine operators, assemblers, and inspectors	434 963	301 091	133 872	269 838	117 903	18 879	10 770	10 770	20 221	35 1	33 3	76 6	3 5	4 2
Machine operators and tenders, except precision	408 044	292 960	115 084	263 070	102 581	17 993	8 315	8 315	19 564	35 2	32 8	76 9	4 2	5 6
Metalworking and plastic working machine operators	2 310	1 431	879	1 196	774	167	75	75	127	31 4	40 1	69 6	3 0	6 1
Fabricating machine operators, n e c	425	211	214	181	207	10	10	7	23	32 8	40 8	78 2	6 2	0 9
Metal and plastic processing and woodworking machine														
Printing machine operators	3 285	2 687	598	2 411	526	188	49	49	157	32 8	31 9	73 2	2 6	2 3
Textile machine operators	318 128	241 670	76 458	219 735	69 688	13 098	4 447	4 447	14 165	36 1	32 4	78 7	2 6	2 8
Textile sewing machine operators	865	504	361	429	279	43	70	70	35	34 7	30 1	67 3	4 1	4 8
Laundry and dry cleaning machine operators	2 192	348	1 844	312	1 493	25	230	230	12	30 5	40 3	58 9	3 2	2 5
Packaging and filling machine operators	157	76	81	55	63	21	8	8	—	25 7	28 8	78 9	58 0	—
Furnace, kiln, and oven operators, except food	1 645	696	949	583	818	57	111	111	75	28 1	35 6	73 3	64 1	—
Other specified machine operators	33 869	20 550	13 319	18 009	12 077	13	8	8	13	40 7	31 6	51 4	1 9	2 4
Miscellaneous and not specified machine operators	44 840	24 532	20 308	19 930	16 604	1 486	2 788	2 788	1 625	33 0	30 1	69 5	6 2	8 7
Fabricators, assemblers, and hand working occupations	15 008	5 626	9 382	4 696	7 539	2 885	2 582	2 582	3 332	30 8	35 2	66 6	3 4	2 5
Welders and cutters	972	877	95	742	75	564	1 194	1 194	504	29 9	34 7	63 5	4 8	2 4
Solders and brazers	81	47	34	29	34	94	12	12	77	33 4	31 4	59 0	0 9	—
Assemblers	12 142	3 929	8 213	3 305	6 585	18	—	—	—	25 8	28 6	70 2	2 1	—
Hand working occupations	1 813	773	1 040	620	845	356	1 041	1 041	375	28 3	34 9	62 6	5 2	—
Production inspectors, testers, samplers, and weighers	11 911	2 505	9 406	2 072	7 783	96	141	141	52	31 8	33 3	72 8	7 2	2 4
Graders and sorters, except agricultural	1 371	303	1 068	224	921	322	1 261	1 261	153	34 8	39 0	74 8	6 9	3 4
Other production inspectors, testers, samplers, and weighers	10 540	2 202	8 338	1 848	6 862	56	111	111	45	25	36 1	53 5	6 3	1 6
Transportation and material moving occupations	36 133	31 692	4 441	25 725	4 000	266	1 150	1 150	108	35 5	40 4	77 7	7 0	2 7
Transportation occupations	25 731	22 915	2 816	18 846	2 561	4 959	336	336	1 847	32 2	32 3	64 4	3 6	3 1
Motor vehicle operators	25 695	22 879	2 816	18 810	2 561	3 351	185	185	1 312	33 1	33 6	65 0	4 4	3 2
Truck drivers	20 647	18 801	1 846	15 428	1 693	3 351	185	185	1 312	33 1	33 6	65 0	4 4	3 2
Driver-sales workers	2 484	1 978	506	1 772	452	2 763	214	214	1 050	32 7	31 8	72 6	3 7	2 6
Other motor vehicle operators	2 564	2 100	464	1 610	416	172	48	48	38	34 9	39 0	68 5	5 0	3 2
Rail and water transportation occupations	36	36	—	36	—	416	23	23	155	38	34 8	70 5	9 3	5 8
Material moving occupations	10 402	8 777	1 625	6 879	1 439	168	1 608	1 608	535	28 3	34 6	52 8	—	—
Supervisors, material moving equipment operators	175	168	7	162	7	—	—	—	107	30 1	29 9	62 7	1 6	2 9
Crane, hoist and winch operators	181	176	5	147	5	28	—	—	—	33 4	50 0	98 8	4 8	100 0
Excavating, grading, and dozer machine operators	30	30	—	30	—	—	—	—	15	41 0	25	69 9	—	—
Other material moving equipment operators	10 016	8 403	1 613	6 540	1 427	1 580	151	151	498	29 7	29 8	40 0	6 7	—
Handlers, equipment cleaners, helpers, and laborers	42 235	24 844	17 391	20 152	14 440	3 338	2 079	2 079	2 269	25	34 7	61 8	1 6	2 5
Supervisors, handlers, equipment cleaners, and laborers, n e c	56	50	6	50	6	—	—	—	—	25	—	80 0	2 7	1 5
Helpers, craft and production	6 114	4 756	1 358	4 088	1 39	394	166	166	424	33 5	35 0	62 7	14 0	100 0
Construction laborers	300	292	8	292	8	22	—	—	39	25	35 3	57 9	3 6	3 6
Freight, stock, and material handlers	7 933	5 826	2 107	5 000	1 820	671	243	243	283	25	36 9	65 6	8 9	12 5
Garage and service station occupations, and equipment										25	—	62 0	2 5	1 7
cleaners	704	628	76	406	46	169	30	30	83	30 7	30 7	55 6	0 2	0 7
Hand packers and packagers	12 543	4 900	7 643	3 877	6 115	623	1 629	1 629	899	27 9	30 7	55 6	1 0	—
Laborers, except construction	14 585	8 392	6 193	6 481	5 306	1 459	583	583	801	25	35 1	59 4	3 7	3 0

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States	Chemicals and allied products															
	Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over	921 188	351 296	802 142	295 472	87 214	41 840	42 653	20 367	38.2	34.8	80.8	78.7	26.4	11.5	0.5	0.4
Managerial and professional specialty occupations	266 324	223 453	209 016	37 893	6 673	2 933	4 294	1 326	40.9	33.9	97.0	95.5	69.9	45.4	0.9	1.0
Executive, administrative, and managerial occupations	151 181	126 513	120 579	22 385	3 557	1 648	2 580	896	42.6	35.1	95.7	94.2	63.3	31.4	1.2	1.0
Officials and administrators, public administration	10	5	5	5	5	5	5	5	60.0	30.0	100.0	100.0	100.0	37.3	—	—
Financial managers	6 528	5 555	5 328	888	117	73	81	42	39.9	35.1	98.9	95.6	75.1	37.3	—	—
Managers, marketing, advertising, and public relations	19 544	17 628	17 131	1 824	272	73	296	63	42.3	34.3	98.9	97.1	70.6	39.9	0.4	1.0
Administrators, education and related fields	116	92	88	24	4	—	5	—	37.9	30.0	92.4	100.0	69.6	29.2	—	—
Managers, medicine and health	6 388	5 221	4 913	1 065	236	102	89	37	43.2	35.7	97.4	94.9	73.4	31.7	0.2	0.5
Other specified managers	82 349	73 230	70 074	8 543	1 695	392	1 584	306	43.8	38.7	94.3	93.4	59.9	29.3	1.7	2.0
Managers and administrators, n.e.c.	80 760	71 899	68 816	8 308	1 646	387	1 539	260	43.8	38.5	94.4	93.7	60.3	29.8	—	—
Self-employed	1 589	1 331	1 258	235	49	5	45	46	45.1	45.1	87.6	83.7	36.4	13.2	95.0	72.1
Management related occupations	36 246	24 782	23 020	10 036	1 233	1 008	525	448	38.8	33.3	96.4	94.1	63.2	31.0	0.6	0.2
Accountants and auditors	17 998	12 260	11 281	4 906	574	526	339	247	35.4	31.6	99.3	96.6	76.0	39.2	0.1	0.1
Personnel, training, and labor relations specialists	6 742	4 636	2 106	1 857	319	197	94	110	42.2	34.9	92.0	95.9	47.3	27.4	0.9	0.3
Buyers and purchasing agents	6 493	4 349	4 193	2 010	129	116	59	32	42.0	35.8	95.0	93.5	47.3	14.4	0.4	—
Inspectors and compliance officers	1 501	992	750	377	111	108	87	36	41.0	41.5	85.0	56.4	22.2	7.3	—	—
Other management related occupations	3 512	2 545	2 408	886	100	61	26	23	40.9	34.0	96.7	96.7	73.2	39.7	3.2	1.3
Professional specialty occupations	115 143	96 940	88 437	15 508	3 116	1 285	1 714	430	38.4	32.4	98.7	97.4	78.5	64.5	0.6	1.1
Engineers, architects, and surveyors	51 479	48 850	45 294	2 340	1 315	1 178	834	38	37.9	27.9	98.7	96.5	78.2	65.2	0.4	0.1
Architects	185	185	172	—	—	—	8	—	42.3	—	100.0	—	70.3	—	—	—
Engineers	51 279	48 652	45 116	2 338	1 308	1 178	826	38	37.9	27.9	98.7	96.5	78.2	65.2	0.4	0.1
Civil engineers	1 332	1 250	1 175	65	33	13	7	—	38.0	28.6	96.1	96.3	76.1	75.6	—	—
Electrical and electronic engineers	2 034	1 968	1 837	42	82	13	55	11	38.7	29.8	98.9	100.0	69.2	57.6	0.7	—
Industrial engineers	7 148	6 275	5 844	810	312	49	107	14	39.6	32.7	98.3	93.1	59.2	40.5	—	—
Mechanical engineers	3 291	3 216	3 047	56	79	19	60	13	39.1	25.9	98.3	100.0	75.5	70.7	0.2	—
Other engineers	37 474	35 943	33 213	1 365	802	80	597	13	37.4	25	98.9	98.2	82.3	78.8	0.5	0.1
Surveyors and mapping scientists	15	13	6	2	7	—	—	—	44.3	30.0	100.0	100.0	53.8	—	—	—
Computer systems analysts and scientists	4 124	3 224	2 999	821	98	52	76	17	36.0	32.0	99.3	98.2	65.7	61.2	0.4	—
Operations and systems researchers and analysts	2 094	1 681	1 531	351	63	44	7	—	38.5	31.9	96.7	98.3	61.9	55.0	0.2	—
Mathematical scientists	926	515	411	353	10	24	11	14	38.2	32.0	98.1	98.1	91.1	53.0	—	—
Natural scientists	38 483	30 940	27 227	5 803	1 233	649	515	211	38.2	32.3	99.0	98.5	82.7	79.3	0.5	0.1
Chemists, except biochemists	31 718	26 287	24 966	3 971	1 144	509	476	176	38.4	31.9	98.9	98.1	82.3	78.2	0.5	0.1
Other natural scientists	6 765	4 653	4 261	1 832	89	140	39	37	37.0	32.4	99.2	99.6	84.6	82.2	0.5	0.1
Health diagnosing occupations	1 302	1 162	1 092	122	28	6	109	41	47.4	39.6	99.5	100.0	94.1	79.3	5.3	14.3
Health assessment and treating occupations	2 422	883	1 690	1 444	54	84	42	19	37.7	46.4	97.7	98.1	72.7	28.5	0.9	1.0
Registered nurses	1 418	99	99	1 255	—	—	64	8	35.4	47.9	100.0	98.3	52.5	20.9	7.1	0.6
Other health assessment and treating occupations	1 004	784	220	591	54	20	42	11	38.1	35.8	97.4	96.8	74.1	74.1	0.1	3.2
Teachers, except postsecondary	610	445	400	133	45	32	30	—	37.8	34.6	96.6	82.4	40.0	28.5	2.9	7.3
Social scientists and urban planners	3 945	2 896	2 763	935	56	78	36	21	39.4	31.2	99.6	96.7	87.9	59.7	0.5	2.9
Social and recreation workers	87	14	14	87	47	—	8	—	46.8	35.0	100.0	100.0	53.4	—	5.5	—
Lawyers and judges	2 246	1 939	1 895	260	153	27	37	8	41.7	32.5	100.0	100.0	58.7	90.9	0.3	4.5
Writers, artists, entertainers, and athletes	6 541	4 077	3 814	2 315	153	79	69	102	40.9	32.7	96.3	94.5	51.9	49.8	2.5	3.9
Other professional specialty occupations	884	235	204	617	14	32	8	—	44.9	41.8	90.6	97.7	56.2	51.5	—	1.1
Technical, sales, and administrative support occupations	342 374	171 362	154 384	152 358	12 078	14 563	5 584	37.7	33.9	33.9	90.4	92.0	32.5	10.3	0.6	0.3
Technicians and related support occupations	86 310	64 378	56 867	18 458	5 006	2 348	2 030	622	35.3	32.2	92.7	90.0	26.5	26.4	0.2	0.3
Health technologists and technicians	2 384	1 298	1 086	1 276	89	121	79	—	34.2	32.6	93.8	94.8	56.6	41.2	—	1.0
Licensed practical nurses	2 170	27	143	37	—	—	20	—	35.4	33.1	70.4	90.2	22.2	—	—	—
Other health technologists and technicians	2 214	1 271	943	1 109	89	84	79	—	34.2	32.5	94.3	95.5	57.4	47.4	—	1.2
Engineering and science technicians	70 540	53 104	46 998	14 663	4 271	2 006	1 843	488	35.2	32.5	92.0	89.0	21.5	21.3	0.3	0.1
Electrical and electronic technicians	2 544	2 360	2 174	140	150	36	85	15	35.6	30.7	92.3	88.0	10.2	6.0	0.3	—
Industrial and mechanical engineering technicians	765	641	583	115	48	9	4	—	35.7	37.0	86.6	75.0	33.2	12.1	—	—
Drafting and surveying technicians	4 386	3 988	3 672	354	205	4	131	11	34.1	29.3	96.7	99.5	11.8	18.1	1.2	1.3
Other engineering and science technicians	62 845	46 115	40 369	14 054	3 868	1 956	1 623	462	35.6	32.5	91.7	88.8	22.7	21.6	0.2	0.1
Technicians, except health, engineering, and science	13 386	9 976	8 733	2 956	646	221	167	55	36.1	31.0	96.4	93.9	49.5	48.1	0.2	1.0
Airplane pilots and navigators	198	198	198	—	—	—	—	—	—	—	99.0	—	32.8	—	—	—
Air traffic controllers and broadcast equipment operators	123	96	27	66	26	—	—	—	39.7	32.1	79.2	100.0	29.2	—	—	—
Computer programmers	4 582	3 045	2 740	1 336	206	114	65	14	32.3	30.1	99.0	98.0	50.0	46.9	—	1.7
Other technicians, except health, engineering, and science	8 483	6 637	5 729	1 593	414	107	102	41	39.0	31.6	95.4	90.4	50.1	49.8	0.2	0.4

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Chemicals and allied products												
United States												
Employed persons 16 years and over—Con.												
Technical, sales, and administrative support occupations—Con.												
Sales occupations												
Supervisors and proprietors, sales occupations												
Self-employed												
Sales representatives, finance and business services												
Sales representatives, commodities, except retail												
Sales workers, retail and personal services												
Caretakers												
Office-related occupations, retail and personal services												
Sales related occupations												
Administrative support occupations, including clerical												
Supervisors, administrative support occupations												
Computer equipment operators												
Secretaries, stenographers, and typists												
Stenographers and typists												
Receptionists												
Other information clerks												
File clerks												
Other records processing occupations, except financial												
Bookkeepers, accounting, and auditing clerks												
Payroll and timekeeping clerks												
Other financial records processing occupations												
Telephone operators												
Mail and message distributing occupations												
Production coordinators and expeditors												
Traffic, shipping, and receiving clerks												
Stock and inventory clerks												
Other material and inventory clerks												
Adjusters and investigators												
Data-entry keyers												
Other administrative support occupations												
Service occupations												
Private household occupations												
Protective service occupations												
Guards												
Other protective service occupations												
Service occupations, except protective and household												
Food preparation and service occupations												
Health service occupations												
Cleaning and building service occupations, except household												
Personal service occupations												
Farming, forestry, and fishing occupations												
Precision production, craft, and repair occupations												
Mechanics and repairers												
Supervisors, mechanics and repairers												
Automobile mechanics, including body												
Industrial machinery repairers												
Electronic repairers, communications and industrial												
Equipment repairers												
Heating, air conditioning, and refrigeration mechanics												
Other mechanics and repairers												
Construction trades												
Supervisors, construction occupations												
Carpenters												
Electricians												
Painters, construction and maintenance												
Plumbers, pipefitters, and steamfitters												
Other construction trades												

Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States												
Chemicals and allied products												
Employed persons 16 years and over—Con.												
Race												
Total			White		Black		Spanish origin ¹		Median age		Percent high school graduates	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
666	603	63	502	57	93	6	20	3	33.1	46.2	76.8	28.6
119 490	108 864	10 626	97 813	8 714	8 215	1 421	3 991	825	41.8	38.3	80.9	14.3
90 975	82 896	8 079	74 809	6 683	5 904	1 023	643	42.3	39.2	39.2	80.9	11.0
14 383	13 541	842	12 097	606	1 023	162	570	110	40.3	32.7	73.5	13.3
1 328	1 290	38	1 206	12	55	13	28	13	39.9	37.1	78.1	3.6
10 481	9 807	674	8 579	470	861	143	476	89	40.2	32.6	73.1	2.5
1 096	1 090	6	1 059	6	22	—	48	8	45.5	30.0	75.2	1.3
1 478	1 354	124	1 253	118	85	6	18	8	37.2	31.7	70.8	16.9
360	328	32	336	204	17	6	35	3	38.4	33.4	50.0	8.6
238	221	17	217	12	38	5	43	—	40.5	40.0	41.2	—
425	317	108	245	61	58	38	8	—	40.5	57.1	82.0	7.4
12 418	11 254	1 164	9 947	994	1 114	157	323	31	39.0	35.5	80.3	3.7
691	507	184	428	154	61	30	12	6	37.6	35.2	72.6	7.1
412 963	295 786	117 177	232 855	89 212	49 281	20 956	23 830	12 168	33.5	36.7	66.9	55.4
292 076	204 130	87 946	161 901	67 037	32 799	15 711	16 434	8 726	33.7	36.6	69.7	55.9
233 272	176 438	56 834	139 144	43 413	29 411	10 311	14 159	5 368	33.7	35.9	69.8	54.8
4 900	3 782	1 118	3 175	980	399	91	605	61	34.2	35.4	60.5	52.1
216	114	102	102	76	12	18	8	8	33.0	32.5	65.8	69.6
10 268	4 985	5 283	4 125	4 619	588	558	465	246	30.5	34.1	60.7	52.8
2 819	1 001	1 818	1 499	841	213	118	152	58	33.7	35.3	78.1	69.1
3 774	2 233	1 541	1 821	1 195	367	333	84	16	32.9	36.8	70.8	60.6
1 235	469	766	344	535	92	172	45	87	32.6	42.0	44.6	44.8
255	144	111	127	82	17	29	—	—	46.0	44.8	53.5	52.3
8 872	4 226	4 646	3 267	3 607	674	833	544	368	31.6	37.6	63.9	54.6
10 309	9 932	377	8 538	297	1 222	70	395	16	36.0	34.4	72.9	70.6
79 694	73 292	6 402	58 957	4 780	11 526	1 328	4 794	465	33.9	33.5	72.6	60.9
110 930	75 443	35 487	57 189	26 401	14 301	6 761	7 267	4 043	33.4	36.5	67.9	53.6
39 499	19 586	19 913	16 095	14 581	2 397	3 684	1 730	2 542	33.4	36.5	66.3	54.9
9 777	9 486	291	8 521	254	240	24	513	21	37.6	34.9	70.0	58.1
99	31	68	31	42	—	19	12	14	53.1	41.0	—	—
28 542	9 264	19 278	6 856	14 058	1 677	3 619	1 086	2 451	29.6	36.5	62.4	55.0
1 081	805	276	687	227	80	22	119	56	32.9	37.3	69.2	42.8
19 305	8 106	11 199	6 662	9 043	991	1 716	545	816	35.9	40.1	77.3	62.7
630	261	369	196	270	43	56	27	41	31.7	38.2	60.9	63.7
18 675	7 845	10 830	6 466	8 773	948	1 640	518	775	36.0	40.1	77.9	62.6
47 406	44 173	3 233	34 921	2 580	7 449	520	3 102	253	35.4	32.7	58.5	61.0
22 046	21 519	527	17 165	376	3 447	112	1 464	42	37.6	34.9	54.9	62.2
21 565	21 063	502	16 754	360	3 413	112	1 454	42	37.6	34.5	54.5	60.4
20 323	19 921	402	15 943	274	3 182	98	1 321	36	37.3	34.6	54.4	62.9
321	300	21	231	15	36	6	25	6	40.9	37.5	70.3	90.5
481	456	25	411	16	34	8	108	6	44.5	33.2	49.3	39.2
25 360	22 654	2 706	17 756	2 204	4 002	408	1 638	211	37.0	50.6	74.8	100.0
1 286	429	15	392	15	33	—	67	—	33.6	32.3	62.0	60.7
1 286	1 260	26	1 059	26	158	33	20	—	42.8	38.0	82.1	100.0
22 824	20 196	2 628	15 717	2 140	3 650	405	39	18	46.6	35.0	47.1	100.0
73 481	47 483	25 998	36 033	19 595	9 033	4 725	4 294	3 189	33.0	32.3	63.1	60.5
114	108	6	101	6	7	—	—	—	31.0	37.7	62.3	53.3
2 906	2 425	481	1 789	348	425	95	383	54	41.4	50.0	82.4	100.0
1 001	972	29	743	16	197	13	41	—	35.2	35.2	59.6	66.3
12 215	10 405	1 810	8 249	1 326	1 892	435	603	56	36.5	34.0	65.0	51.7
1 757	1 394	363	1 007	259	368	84	78	14	34.6	37.6	57.4	64.5
24 839	7 520	17 319	5 719	13 292	1 271	2 805	990	2 432	29.6	39.5	64.4	0.1
30 649	24 659	5 990	18 434	4 348	4 873	1 293	2 199	633	31.4	34.5	61.4	57.7

¹Persons of Spanish origin may be of any race

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Both sexes	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
		Total		White		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
		Male	Female	Male	Female										
Technical, sales, and administrative support occupations—Con.															
Sales occupations	13 199	11 104	2 095	10 824	1 902	143	146	186	97	39.0	33.4	41.2	12.8	2.9	4.4
Supervisors and proprietors, sales occupations	1 336	1 228	108	1 161	103	34	34	77	14	40.1	34.5	28.7	4.6	5.7	5.6
Salaries	1 260	1 158	102	1 091	97	34	34	77	14	39.8	35.7	29.2	4.9	100.0	100.0
Self-employed	76	70	6	70	6	—	—	—	—	47.5	38.1	21.4	20.0	2.6	5.2
Sales representatives, finance and business services	129	104	25	104	20	109	76	109	61	38.8	32.7	43.3	14.0	1.8	—
Sales representatives, commodities, except retail	11 268	9 598	1 670	9 393	1 573	—	—	—	—	35.0	38.0	22.9	8.8	—	—
Sales workers, retail and personal services	454	170	284	162	204	—	—	—	—	32.9	37.3	13.0	2.8	—	—
Cashiers	264	46	218	138	138	—	—	—	—	36.6	41.7	26.6	28.8	2.4	—
Other sales occupations, retail and personal services	190	124	66	124	66	—	—	—	—	25	31.7	—	—	—	—
Sales related occupations	12	4	2	4	2	—	—	—	—	—	—	—	—	—	—
Administrative support occupations, including clerical	71 855	24 891	46 964	21 880	43 574	2 023	2 272	1 427	1 555	36.2	34.2	11.6	4.4	0.2	0.2
Supervisors, administrative support occupations	5 417	3 851	1 566	3 524	1 479	196	42	215	40	39.7	39.4	85.5	7.0	—	—
Computer equipment operators	2 402	1 050	1 352	934	1 275	78	49	72	56	33.1	30.3	11.3	3.5	—	—
Secretaries, stenographers, and typists	17 623	215	15 498	228	16 487	27	586	477	37.6	33.6	88.2	22.1	4.5	—	—
Secretaries	15 713	215	15 498	228	16 487	27	586	477	37.6	33.6	88.2	22.1	4.5	—	—
Stenographers and typists	1 910	48	1 862	33	1 665	15	156	5	384	40.8	33.8	23.3	4.6	—	—
Receptionists	1 165	13	1 152	5	1 042	8	79	—	93	28.0	31.1	16.7	3.2	—	—
Other information clerks	285	93	192	93	192	—	—	—	49	46.9	30.9	100.0	89.3	—	—
File clerks	2 349	1 029	1 320	909	1 334	115	108	9	133	38.5	28.9	34.4	6.3	—	—
Other records processing occupations, except financial	2 823	832	1 991	709	1 740	86	168	44	103	34.4	33.3	13.0	3.2	—	—
Bookkeepers, accounting, and auditing clerks	6 961	784	6 177	717	5 897	45	164	14	204	36.6	36.9	32.3	4.7	0.6	0.6
Payroll and timekeeping clerks	1 418	137	1 281	135	1 230	2	46	17	17	46.2	38.2	4.4	5.2	—	—
Other financial records processing occupations	1 255	208	1 047	192	986	15	18	3	40	38.8	33.3	18.3	6.8	—	—
Telephone operators	499	36	463	21	443	—	—	21	21	41.7	72.2	19.4	0.4	—	—
Mail and message distributing occupations	822	459	363	332	332	86	5	32	31	28.0	34.0	5.7	5.5	—	—
Production coordinators and expeditors	4 708	2 882	1 826	2 623	1 671	193	120	104	82	36.4	35.1	15.7	4.3	0.8	—
Traffic, shipping, and receiving clerks	8 976	6 970	2 006	5 938	1 758	641	157	589	144	33.8	35.1	23.3	1.7	—	—
Stock and inventory clerks	4 689	3 390	1 299	2 925	1 173	307	83	176	44	38.0	34.7	7.3	3.0	0.4	0.4
Other material recording, scheduling, and distributing clerks	976	595	381	482	327	101	31	19	36	31.8	35.5	3.2	1.6	—	—
Adjusters and investigators	975	411	564	366	543	34	21	—	—	40.3	33.8	36.0	14.2	—	—
Date-entry keyers	1 977	123	1 854	90	1 537	24	246	9	60	31.0	29.7	10.6	1.5	—	—
Other administrative support occupations	6 535	1 765	4 770	1 627	4 326	63	314	136	95	37.8	36.3	14.1	5.0	—	—
Service occupations	15 682	13 563	2 119	11 498	1 684	1 652	373	755	100	43.2	42.9	2.3	0.1	0.1	0.2
Private household occupations	2 450	2 291	159	2 087	119	174	40	26	12	52.3	37.6	4.5	—	—	—
Protective service occupations	2 327	2 168	159	1 986	119	152	40	26	12	52.7	37.6	4.8	—	—	—
Guards	123	123	—	101	—	22	—	—	—	49.1	70.7	—	—	—	—
Other protective service occupations	13 232	11 272	1 960	9 411	1 565	1 478	333	729	88	41.0	43.5	1.9	0.1	0.2	0.2
Service occupations, except protective and household	256	99	157	93	127	6	19	9	—	30.7	52.6	15.2	—	—	—
Food preparation and service occupations	97	13	84	8	65	5	13	—	13	29.6	36.3	61.5	78.6	—	—
Health service occupations	12 741	11 095	1 646	9 253	1 304	1 467	301	712	71	41.2	42.6	1.6	—	0.2	0.1
Cleaning and building service occupations, except household	138	65	73	57	69	—	—	8	4	33.0	47.8	27.7	2.7	—	2.7
Personal service occupations	268	221	47	154	40	51	7	14	—	32.0	32.8	—	—	—	17.0
Farming, forestry, and fishing occupations	108 631	99 007	9 624	90 457	7 880	5 513	1 196	5 277	837	37.4	37.3	5.5	2.9	0.5	0.9
Precision production, craft, and repair occupations	29 049	27 707	1 342	25 343	1 131	1 587	173	1 296	87	35.9	35.8	2.3	2.1	0.4	0.4
Mechanics and repairers	1 090	1 010	80	906	70	46	10	17	10	38.6	30.0	10.1	—	1.7	—
Supervisors, mechanics and repairers	15 500	14 918	582	13 851	518	644	64	747	33	34.8	36.8	1.6	2.2	0.1	—
Automobile mechanics, including body	183	182	1	182	1	—	—	—	—	36.8	25	10.4	—	—	—
Industrial machinery repairers	11 304	10 835	669	9 696	542	840	99	476	31	37.8	35.5	2.7	2.2	0.6	0.7
Electronic repairers, communications and industrial equipment	9 440	8 945	495	8 203	367	486	110	350	28	39.4	34.7	2.6	2.6	0.4	0.4
Heating, air conditioning, and refrigeration mechanics	410	410	—	380	—	24	—	8	—	40.6	47.5	11.2	—	1.2	—
Other mechanics and repairers	832	802	30	745	21	28	9	53	—	46.1	46.1	3.4	—	0.6	—
Construction trades	4 818	4 760	58	4 403	58	242	—	97	—	38.4	38.4	2.4	22.4	0.2	—
Supervisors, construction occupations	2 143	2 088	55	1 979	41	75	14	90	18	32.5	35.5	1.3	—	—	—
Carpenters	596	488	108	403	68	77	40	61	10	41.2	41.2	1.7	—	0.5	—
Electricians	2 143	2 088	55	1 979	41	75	14	90	18	32.5	35.5	1.3	—	—	—
Painters, construction and maintenance	2 143	2 088	55	1 979	41	75	14	90	18	32.5	35.5	1.3	—	—	—
Plumbers, pipefitters, and steamfitters	596	488	108	403	68	77	40	61	10	41.2	41.2	1.7	—	0.5	—
Other construction trades	596	488	108	403	68	77	40	61	10	41.2	41.2	1.7	—	0.5	—

¹Persons of Spanish origin may be of any race

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Rubber and miscellaneous plastics products									
	Race																			
	Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed					
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Precision production, craft, and repair occupations—Con																				
Extraction occupations	73	59	14	14	19	913	—	—	31.1	51.3	59.3	14.3	8.5	—	—	—	—	—	—	—
Precision production occupations	70 069	62 296	56 871	6 368	3 421	913	—	—	37.8	37.7	75.4	59.9	7.4	3.1	0.6	0.9	—	—	—	—
Supervisors, production occupations	47 140	42 042	38 343	4 350	2 365	426	—	—	38.2	39.0	76.9	64.3	9.3	3.9	0.3	0.3	—	—	—	—
Precision metalworking occupations	18 103	16 557	15 310	1 350	737	292	—	—	36.0	34.3	72.2	52.1	2.6	1.9	1.3	3.4	—	—	—	—
Tool and die makers	4 219	4 777	4 005	71	65	6	—	—	39.2	37.9	78.3	87.0	2.2	—	—	—	—	—	—	—
Machinists	12 555	11 336	10 280	841	629	277	—	—	34.7	34.1	70.1	49.1	2.7	1.8	1.1	0.6	—	—	—	—
Sheet metal workers	309	294	288	15	6	—	—	—	39.4	36.7	87.4	40.0	2.0	—	—	—	—	—	—	—
Other precision metal workers	1 020	785	737	223	37	9	—	—	32.6	32.7	64.5	57.4	2.3	3.0	9.0	19.6	—	—	—	—
Precision textile, apparel, and furnishings machine workers	818	243	153	426	54	109	—	—	32.2	37.7	46.9	47.5	6.2	0.9	3.3	—	—	—	—	—
Precision food production occupations	149	110	97	38	5	1	—	—	33.8	45.2	56.4	64.1	2.7	—	1.8	—	—	—	—	—
Precision inspectors, testers, and related workers	985	742	634	161	72	67	—	—	35.1	32.9	76.7	51.4	3.6	4.1	—	—	—	—	—	—
Plant and system operators	1 762	1 731	1 605	25	87	6	—	—	43.9	34.7	77.8	61.3	1.7	—	0.1	—	—	—	—	—
Other precision production occupations	1 112	871	729	218	101	12	—	—	32.5	33.5	69.1	53.5	1.4	—	2.6	—	—	—	—	—
Operators, fabricators, and laborers	340 326	203 491	166 951	111 595	25 361	16 401	—	—	32.5	35.6	62.1	53.0	2.1	1.1	0.2	0.1	—	—	—	—
Machinists, operators, assemblers, and inspectors	270 623	155 730	128 958	93 915	18 536	13 760	—	—	32.5	35.9	63.3	52.9	2.2	1.0	0.2	0.1	—	—	—	—
Metalworking and related machine operators	206 326	127 715	105 335	63 451	15 283	10 151	—	—	32.3	35.1	62.9	53.0	1.9	1.0	0.2	0.1	—	—	—	—
Metalworking machine operators	8 670	5 601	4 868	2 710	449	266	—	—	32.3	35.0	58.1	53.5	1.3	0.6	0.4	—	—	—	—	—
Fabricating machine operators	319	215	191	86	7	12	—	—	33.4	32.6	57.7	60.6	6.0	—	—	—	—	—	—	—
Metal and plastic processing and woodworking machine operators	34 474	17 097	14 419	15 132	1 782	1 612	—	—	30.8	34.2	59.0	56.5	1.8	1.0	0.5	—	—	—	—	—
Printing machine operators	2 441	1 459	1 116	898	84	67	—	—	32.1	35.9	63.1	51.1	2.6	1.1	0.4	0.7	—	—	—	—
Textile machine operators	1 878	1 316	1 116	451	126	80	—	—	32.3	35.9	63.1	51.1	2.6	1.1	0.4	0.7	—	—	—	—
Textile sewing machine operators	4 162	577	398	2 387	95	579	—	—	33.5	35.5	54.4	50.1	6.2	0.7	1.4	0.1	—	—	—	—
Laundry and dry cleaning machine operators	17	1	1	5	—	—	—	—	30.0	46.1	100.0	12.5	—	—	—	—	—	—	—	—
Packaging and filling machine operators	1 815	671	592	900	44	168	—	—	30.9	34.3	65.9	62.1	3.0	1.0	—	—	—	—	—	—
Furnace, kiln, and oven operators, except food	1 458	1 313	1 225	117	50	28	—	—	37.2	35.2	64.1	56.6	1.4	—	0.1	—	—	—	—	—
Other specified machine operators	32 416	22 692	19 253	8 045	2 414	1 095	—	—	32.5	35.5	62.0	51.1	1.6	0.6	0.2	—	—	—	—	—
Miscellaneous and not specified machine operators	118 676	76 773	61 927	32 720	10 232	6 233	—	—	32.6	35.5	64.3	51.8	2.1	1.2	0.2	0.1	—	—	—	—
Fabricators, assemblers, and hand working occupations	36 828	16 887	13 535	16 407	2 023	1 993	—	—	31.1	35.7	60.6	51.3	2.3	1.0	0.5	0.2	—	—	—	—
Welders and cutters	3 439	3 040	2 636	322	191	33	—	—	33.7	35.8	59.5	63.0	1.0	—	—	—	—	—	—	—
Solders and brazers	186	58	30	117	28	5	—	—	33.9	33.6	39.7	68.4	—	—	—	—	—	—	—	—
Assemblers	31 490	12 885	10 156	15 247	1 660	893	—	—	30.3	35.4	60.2	51.5	2.7	1.1	0.6	0.2	—	—	—	—
Hand working occupations	1 713	904	713	721	144	62	—	—	34.9	46.1	71.1	38.9	0.4	—	0.7	0.7	—	—	—	—
Production inspectors, testers, samplers, and weighers	27 469	11 128	9 388	14 057	1 230	1 616	—	—	36.0	40.1	72.4	54.9	4.9	1.1	—	—	—	—	—	—
Graders and sorters, except agricultural	1 569	1 033	841	441	166	47	—	—	34.9	38.1	70.7	49.3	1.6	—	—	—	—	—	—	—
Other production inspectors, testers, samplers, and weighers	25 900	10 095	8 547	13 616	1 064	1 569	—	—	36.1	40.2	72.6	55.0	5.3	1.2	0.1	—	—	—	—	—
Transportation and material moving occupations	23 250	20 593	17 005	2 321	2 744	220	—	—	33.8	33.0	58.2	60.9	1.7	1.1	0.2	—	—	—	—	—
Transportation occupations	8 150	7 903	6 605	222	1 004	18	—	—	37.9	34.5	55.1	62.3	1.4	1.6	0.3	—	—	—	—	—
Motor vehicle operators	8 091	7 846	6 567	220	990	18	—	—	38.0	34.4	55.1	62.9	1.4	1.6	0.3	—	—	—	—	—
Truck drivers	7 432	7 236	6 090	176	896	13	—	—	37.9	33.0	54.3	64.3	1.4	2.0	0.3	—	—	—	—	—
Driver-sales workers	166	138	111	28	27	—	—	—	36.0	40.0	68.8	67.9	—	—	—	—	—	—	—	—
Other motor vehicle operators	493	472	366	16	67	5	—	—	42.0	42.0	63.6	42.9	3.0	—	—	—	—	—	—	—
Rail and water transportation occupations	59	57	38	2	14	—	—	—	25	40.0	45.6	—	—	—	—	—	—	—	—	—
Material moving equipment operators	15 100	12 690	10 400	2 099	1 740	202	—	—	31.9	32.9	60.2	60.7	1.9	1.0	0.2	—	—	—	—	—
Supervisors, material moving equipment operators	193	176	169	17	—	—	—	—	36.6	32.1	85.2	88.2	8.5	23.5	—	—	—	—	—	—
Crane, hoist and winch operators	292	265	215	27	43	—	—	—	37.1	43.6	46.8	18.5	—	—	—	—	—	—	—	—
Excavating, grading, and dozer machine operators	58	42	29	3	13	—	—	—	26.7	40.5	52.4	18.8	—	—	4.8	—	—	—	—	—
Other material moving equipment operators	14 557	12 207	9 987	2 052	1 684	202	—	—	31.8	32.7	60.1	61.3	1.9	0.9	0.2	—	—	—	—	—
Handlers, equipment cleaners, helpers, and laborers	46 453	27 168	21 688	15 359	4 081	2 421	—	—	31.4	34.6	58.2	52.1	2.1	1.2	0.3	0.1	—	—	—	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	100	92	71	8	21	—	—	—	36.6	50.0	71.7	—	22.8	—	—	—	—	—	—	—
Helpers, craft and production	2 517	2 065	1 565	357	375	52	—	—	31.7	36.1	49.0	49.1	1.8	1.5	—	—	—	—	—	—
Construction laborers	238	206	157	24	30	8	—	—	34.5	38.3	64.1	55.9	—	—	—	—	—	—	—	—
Freight, stock, and material handlers	7 670	6 401	5 196	1 045	1 040	183	—	—	30.2	33.4	62.7	68.8	2.3	—	0.1	1.0	—	—	—	—
Garage and service station occupations, and equipment cleaners	2 137	1 878	1 474	174	390	73	—	—	36.0	39.3	51.0	51.4	1.6	—	1.0	—	—	—	—	—
Hand packers and packagers	16 480	12 870	2 797	10 198	492	1 571	—	—	29.3	34.4	54.0	52.2	1.3	1.3	0.4	—	—	—	—	—
Laborers, except construction	17 311	12 916	10 428	3 553	1 733	534	—	—	31.9	35.4	59.5	51.2	2.2	1.2	0.3	0.1	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Other nondurable goods																	
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed					
	Total		White		Black		Male		Female		Male		Female		Male		Female	
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over																		
68 067	56 937	11 130	53 698	9 959	1 684	742	18 338	38.7	36.9	70.6	58.7	17.2	4.6	1.0	0.4			
44 949	37 332	7 617	35 360	6 761	1 194	564	24 193	41.6	33.8	94.4	91.7	60.2	38.1	1.5	2.1			
2 070	1 843	227	1 742	203	56	16	91	40.0	32.2	97.1	91.2	69.8	32.2	—	—			
3 309	2 952	357	2 824	336	91	15	69	41.3	33.2	95.9	93.8	49.5	43.4	0.1	5.9			
12	6	6	6	6	—	—	—	30.0	40.0	100.0	100.0	100.0	—	—	—			
2 080	1 723	357	1 614	351	73	—	79	38.1	38.1	95.1	96.1	60.7	28.3	2.1	0.6			
23 083	20 573	2 510	19 647	2 339	540	100	672	45.4	39.3	90.6	89.4	47.5	21.0	2.7	5.8			
22 349	20 007	2 342	19 107	2 180	536	100	619	45.4	39.4	90.8	89.5	47.9	21.5	2.7	5.8			
734	566	168	540	159	4	—	53	49.1	38.1	83.0	88.1	32.7	13.1	98.1	86.3			
14 395	10 235	4 160	9 527	3 526	434	433	353	39.3	32.1	95.1	95.8	58.4	37.3	0.7	—			
8 147	5 550	2 597	5 107	2 164	279	279	174	35.5	30.7	99.0	96.6	73.5	44.7	0.5	—			
2 483	1 742	741	1 568	649	139	75	69	41	42.7	36.3	88.5	92.8	40.5	—	—			
2 350	1 840	510	1 802	465	32	21	45	5	34.5	34.5	91.7	95.9	21.6	0.5	—			
303	282	21	262	21	13	—	13	42.2	32.5	85.5	91.4	22.3	71.4	—	—			
1 112	821	291	788	227	9	58	52	18	33.5	94.0	97.3	56.9	30.9	4.1	—			
23 118	19 605	3 513	18 338	3 198	490	178	530	38.5	33.4	97.5	88.0	75.2	52.3	1.0	2.0			
11 877	11 306	571	10 674	516	221	32	283	36.6	25.3	98.5	95.4	78.6	76.4	0.8	—			
29	29	—	29	—	—	—	—	41.1	—	100.0	—	100.0	—	—	—			
11 841	11 270	571	10 638	516	221	32	283	36.6	25.3	98.5	95.4	78.6	76.4	0.8	—			
543	517	26	503	19	—	—	22	39.3	30.0	98.8	100.0	76.2	100.0	—	—			
654	646	8	570	—	52	8	18	34.4	25	98.6	100.0	46.9	17.9	—	—			
1 397	1 274	123	1 236	108	13	—	84	39.4	32.8	96.4	84.6	46.9	17.9	0.2	—			
1 415	1 388	27	1 338	27	35	—	26	36.8	25	96.3	100.0	72.3	70.4	—	—			
7 832	7 445	387	6 991	362	121	17	133	36.1	25	99.3	98.2	85.7	94.6	1.1	—			
7	7	—	7	—	—	—	—	25	—	100.0	—	—	—	—	—			
1 321	290	150	1 179	231	50	33	27	37.4	31.8	100.0	100.0	70.3	70.3	0.6	—			
700	550	150	512	140	17	10	14	38.2	29.9	98.9	97.3	69.1	52.7	—	—			
122	79	43	72	43	7	—	—	46.0	28.8	100.0	100.0	45.6	53.5	—	—			
3 516	2 842	674	2 604	596	92	45	29	40.5	36.1	98.5	73.1	83.1	57.3	1.0	—			
2 767	2 183	584	1 953	526	84	33	29	40.1	37.4	98.7	70.2	82.1	55.5	0.4	—			
749	659	90	651	70	8	12	12	41.7	26.7	97.9	92.2	86.6	68.9	2.7	—			
61	61	—	61	—	—	—	—	44.1	—	100.0	—	100.0	—	—	—			
359	7	352	7	342	—	10	—	5	47.7	100.0	97.7	71.4	14.2	—	—			
352	7	352	7	342	—	10	—	5	47.7	100.0	97.7	71.4	14.2	—	—			
7	7	—	7	—	—	—	—	50.0	—	100.0	—	71.4	14.2	—	—			
313	123	190	118	183	5	7	—	45.9	40.9	90.2	51.6	23.6	14.2	6.5	—			
802	621	181	601	160	12	13	6	38.1	31.8	99.2	96.7	87.1	69.6	1.3	—			
34	8	26	19	19	8	7	—	33.0	53.6	62.5	26.9	97.5	100.0	—	—			
949	846	103	813	93	22	5	56	42.1	31.0	98.2	100.0	37.9	42.4	0.8	—			
2 575	1 803	772	1 659	724	56	16	115	42.2	33.1	87.4	91.5	37.9	42.4	3.4	8.9			
199	38	161	38	151	—	—	—	18	46.4	78.9	88.2	15.8	48.4	—	—			
94 248	42 872	51 376	38 110	44 789	3 222	4 666	2 118	2 687	33.5	86.2	88.1	24.6	7.6	1.2	0.3			
14 884	12 175	2 709	10 984	2 097	746	486	464	59	31.1	94.1	91.1	25.6	26.9	0.6	0.2			
179	121	58	121	45	—	13	—	—	33.1	80.2	100.0	46.3	32.8	—	—			
14	—	14	—	9	—	—	—	—	56.3	—	100.0	—	—	—	—			
165	121	44	121	36	—	8	—	—	40.7	80.2	100.0	46.3	43.2	—	—			
11 150	9 328	1 822	8 443	1 430	529	311	377	53	31.1	93.6	89.1	19.4	19.6	0.4	—			
1 088	1 028	60	987	39	38	7	—	—	33.9	95.9	46.7	15.5	—	—	—			
261	255	6	241	6	5	—	26	—	50.0	87.8	50.0	20.0	—	—	—			
1 641	1 382	259	1 157	252	98	—	105	—	37.7	94.6	100.0	16.4	15.1	0.9	—			
8 160	6 663	1 497	6 058	1 133	388	304	239	53	39.6	93.3	89.1	20.6	21.3	0.4	—			
3 555	2 726	829	2 420	622	217	162	87	6	31.0	96.2	94.8	45.7	42.5	1.3	0.7			
208	208	7	208	7	—	—	—	—	34.7	94.7	94.7	31.7	—	3.8	—			
27	20	7	20	7	—	—	—	—	52.1	100.0	100.0	—	—	—	—			
1 643	1 166	477	1 056	378	59	78	43	—	49.2	99.1	99.1	65.1	—	1.3	—			
1 677	1 332	345	1 136	237	158	84	44	6	37.8	93.8	89.9	31.1	26.1	0.9	1.7			

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																		
Employed persons 16 years and over—Con																		
Technical, sales, and administrative support occupations—Con																		
Sales occupations																		
Supervisors and proprietors, sales occupations																		
Self-employed																		
Sales representatives, finance and business services																		
Sales representatives, commodities, except retail																		
Sales workers, retail and personal services																		
Cashiers																		
Other sales occupations, retail and personal services																		
Sales related occupations																		
Administrative support occupations, including clerical																		
Supervisors, administrative support occupations																		
Computer equipment operators																		
Secretaries, stenographers, and typists																		
Stenographers and typists																		
Receptionists																		
Other information clerks																		
File clerks																		
Other records processing occupations, except financial																		
Bookkeepers, accounting, and auditing clerks																		
Payroll and timekeeping clerks																		
Other financial records processing occupations																		
Telephone operators																		
Mail and message distributing occupations																		
Production coordinators and expeditors																		
Traffic, shipping, and receiving clerks																		
Stock and inventory clerks																		
Other material recording, scheduling, and distributing clerks																		
Adjusters and investigators																		
Data-entry keyers																		
Other administrative support occupations																		
Service occupations																		
Private household occupations																		
Protective service occupations																		
Guards																		
Other protective service occupations																		
Service occupations, except protective and household																		
Food preparation and service occupation																		
Health service occupations																		
Cleaning and building service occupations, except household																		
Personal service occupations																		
Farming, forestry, and fishing occupations																		
Precision production, craft, and repair occupations																		
Mechanics and repairers																		
Supervisors, mechanics and repairers																		
Automotive mechanics, including body																		
Industrial machinery repairers																		
Electronic repairers, communications and industrial equipment																		
Heating, air conditioning, and refrigeration mechanics																		
Other mechanics and repairers																		
Construction trades																		
Supervisors, construction occupations																		
Carpenters																		
Electricians																		
Painters, construction and maintenance																		
Plumbers, pipefitters, and steamfitters																		
Other construction trades																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		
Other nondurable goods																		

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States												
Other nondurable goods												
Employed persons 16 years and over—Con.												
Precision production, craft, and repair occupations—Con												
Extractive occupations												
Precision production occupations												
Supervisors, production occupations												
Precision metalworking occupations												
Tool and die makers												
Machinists												
Sheet metal workers												
Other precision metal workers												
Precision textile, apparel, and furnishings machine workers												
Precision food production occupations												
Precision inspectors, testers, and related workers												
Plant and system operators												
Other precision production occupations												
Operators, fabricators, and laborers												
Machine operators, assemblers, and inspectors												
Machine operators and tenders, except precision												
Metalworking and plastic working machine operators												
Fabricating machine operators, n.e.c.												
Metal and plastic processing and woodworking machine operators												
Pinning machine operators												
Textile machine operators												
Textile sewing machine operators												
Laundry and dry cleaning machine operators												
Packaging and filling machine operators												
Furnace, kiln, and oven operators, except food												
Other specified machine operators												
Miscellaneous and not specified machine operators												
Fabricators, assemblers, and hand working occupations												
Welders and cutters												
Solders and brazers												
Assemblers												
Hand working occupations												
Production inspectors, testers, samplers, and weighers												
Graders and sorters, except agricultural												
Other production inspectors, testers, samplers, and weighers												
Transportation and material moving occupations												
Transportation occupations												
Motor vehicle operators												
Truck drivers												
Driver-sales workers												
Other motor vehicle operators												
Rail and water transportation occupations												
Material moving occupations												
Supervisors, material moving equipment operators												
Crane, hoist and winch operators												
Excavating, grading, and dozer machine operators												
Other material moving equipment operators												
Handlers, equipment cleaners, helpers, and laborers												
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.												
Helpers, craft and production												
Construction laborers												
Freight, stock, and material handlers												
Garage and service station occupations, and equipment cleaners												
Hand packers and packagers												
Laborers, except construction												

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States												
Lumber and wood products, except furniture												
Both sexes	Total		Race		Black		Spanish origin ¹		Median age		Percent high school graduates	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over	598 122	101 128	500 924	85 417	76 457	11 992	26 073	4 787	34.6	34.1	55.8	67.1
Managerial and professional specialty occupations	57 950	6 560	49 547	6 365	1 057	133	866	120	40.9	36.3	84.8	90.5
Executive, administrative, and managerial occupations	50 177	5 586	43 003	5 414	949	121	740	92	41.7	37.6	83.5	89.8
Officials, administrative, and public administration	9	—	9	—	—	—	—	—	57.5	—	33.3	—
Financial managers	1 263	281	937	281	15	—	18	—	38.9	36.4	96.2	94.0
Managers, marketing, advertising, and public relations	3 521	3 164	3 139	355	19	2	34	7	40.9	36.4	93.9	93.0
Administrators, education and related fields	11	—	11	—	—	—	—	—	61.1	—	36.4	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	1 900	224	1 616	216	42	8	34	13	39.5	34.2	89.0	97.8
Managers and administrators, n.e.c.	34 198	2 855	30 310	2 774	591	66	532	45	42.6	40.7	81.5	85.7
Salaries	27 773	2 535	24 435	2 462	451	58	406	29	42.7	40.8	84.8	87.9
Self-employed	6 425	6 105	5 875	312	140	8	126	16	42.6	43.8	67.9	68.8
Management related occupations	9 275	7 406	6 981	1 788	282	45	122	27	38.4	34.5	84.3	93.7
Accountants and auditors	3 494	2 348	2 285	1 096	32	32	13	—	36.6	33.3	98.7	97.4
Personnel, training, and labor relations specialists	1 516	1 288	1 174	222	59	—	66	15	39.8	37.8	74.6	88.6
Buyers and purchasing agents	3 805	3 375	3 144	415	191	8	30	7	38.6	36.7	78.8	87.4
Inspectors and compliance officers	59	54	49	—	5	—	6	—	53.7	50.0	57.4	—
Other management related occupations	401	341	329	55	6	5	7	—	41.9	36.1	91.8	96.7
Professional specialty occupations	7 773	6 799	6 544	951	108	12	126	28	34.7	31.2	93.8	94.4
Engineers, architects, and surveyors	3 052	2 921	2 806	131	44	—	62	—	35.4	30.1	95.5	100.0
Architects	98	77	70	21	7	—	—	—	32.3	29.4	87.0	100.0
Engineers	2 873	2 763	2 655	110	37	—	55	—	32.7	30.2	96.5	100.0
Civil engineers	298	279	261	19	8	—	—	—	32.7	25	98.2	100.0
Electrical and electronic engineers	178	173	166	5	—	—	—	—	35.4	50.0	100.0	100.0
Industrial engineers	948	872	828	76	21	—	28	—	35.7	31.3	93.3	100.0
Mechanical engineers	401	401	401	—	—	—	—	—	38.0	—	96.8	—
Other engineers	1 048	1 038	999	10	8	—	20	—	36.9	25	97.9	100.0
Surveyors and mapping scientists	81	81	81	—	—	—	—	—	26.1	—	72.8	—
Computer systems analysts and scientists	206	162	140	44	17	—	12	—	32.5	38.3	96.3	100.0
Operations and systems researchers and analysts	96	62	63	33	10	—	—	—	41.6	26.3	93.7	100.0
Mathematical scientists	35	24	14	29	3	—	—	—	56.5	30.7	100.0	100.0
Natural scientists	2 642	2 523	2 457	114	30	2	13	—	33.7	27.4	95.6	95.8
Chemists, except biochemists	152	135	120	12	5	2	—	—	43.3	32.5	100.0	100.0
Other natural scientists	2 490	2 388	2 337	102	25	—	13	—	33.4	27.2	95.3	95.1
Health diagnosing occupations	6	6	6	—	—	—	—	—	50.0	—	100.0	100.0
Health assessment and treating occupations	111	23	88	88	—	—	—	—	32.2	49.0	100.0	100.0
Registered nurses	88	88	88	—	—	—	—	—	—	—	—	—
Other health assessment and treating occupations	23	23	23	—	—	—	—	—	32.2	49.0	100.0	100.0
Teachers, except postsecondary	60	37	30	23	—	—	7	—	38.8	30.0	64.9	91.3
Social scientists and urban planners	239	193	193	46	—	—	—	—	33.5	32.9	100.0	100.0
Social and recreation workers	8	8	8	—	—	—	—	—	61.7	—	—	—
Lawyers and judges	106	100	100	—	—	—	—	—	39.6	40.0	94.0	100.0
Writers, artists, entertainers, and athletes	1 118	708	673	400	7	6	32	17	37.9	31.2	79.9	92.0
Other professional specialty occupations	74	43	31	43	—	—	—	—	30.3	25.3	93.5	65.1
Technical, sales, and administrative support occupations	60 619	27 299	25 189	31 622	1 513	987	811	808	36.0	34.2	79.7	89.0
Technicians and related support occupations	4 851	4 205	3 987	609	74	—	70	—	32.4	29.8	88.7	88.4
Health technologists and technicians	37	11	26	20	—	—	—	—	49.2	29.2	81.8	80.8
Licensed practical nurses	2	2	2	—	—	—	—	—	60.0	—	—	—
Other health technologists and technicians	35	9	9	20	—	—	—	—	47.5	29.2	100.0	80.8
Engineering and science technicians	3 580	3 190	3 022	364	65	7	60	3	31.7	28.7	87.7	84.4
Electrical and electronic technicians	136	117	117	19	—	—	—	—	29.5	34.5	100.0	100.0
Industrial and mechanical technicians	83	83	83	—	—	—	—	—	48.1	—	90.4	—
Drafting and surveying technicians	1 987	1 788	1 689	191	24	—	25	—	29.7	25	90.5	91.0
Other engineering and science technicians	1 374	1 202	1 133	154	41	7	34	—	34.3	32.8	82.3	79.1
Technicians, except health, engineering, and science	1 234	1 004	954	225	9	—	10	—	34.6	31.0	91.6	96.1
Airplane pilots and navigators	231	226	226	5	—	—	10	—	41.8	50.0	93.8	100.0
Air traffic controllers and broadcast equipment operators	21	15	15	6	—	—	—	—	60.0	60.0	—	—
Computer programmers	447	308	308	134	—	—	—	—	33.5	28.4	100.0	100.0
Other technicians, except health, engineering, and science	535	455	405	80	9	—	—	—	34.9	34.0	87.9	96.3

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con. [Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States											
Employed persons 16 years and over—Con.											
Lumber and wood products, except furniture											
Race											
Total				White				Black			
Both sexes		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.											
Sales occupations											
Supervisors and proprietors, sales occupations	10 944	9 483	1 461	8 981	1 397	409	31	1 030	949	149	49
Salaried	1 665	1 545	120	1 305	102	230	8	73	111	12	7
Self-employed	953	840	113	781	101	59	8	31	44	12	7
Sales representatives, finance and business services	712	705	7	524	1	171	—	—	—	—	—
Sales representatives, commodities, except retail	89	63	26	57	26	6	—	—	—	—	—
Sales representatives, retail and personal services	8 821	7 665	1 156	7 421	1 140	173	—	—	—	—	—
Cashiers	335	188	147	181	117	—	23	—	—	—	—
Other sales occupations, retail and personal services	172	64	108	57	92	—	11	—	—	—	—
Sales related occupations	163	124	39	124	25	—	12	—	—	—	—
Administrative support occupations, including clerical	44 824	13 611	31 213	12 221	29 616	1 030	949	1 030	949	149	49
Supervisors, administrative support occupations	2 757	2 043	714	1 910	698	73	13	73	111	12	7
Computer equipment operators	1 257	463	794	414	732	31	44	31	44	12	7
Secretaries, stenographers, and typists	12 498	217	12 281	184	11	20	261	20	261	19	6
Secretaries	11 787	197	11 590	171	11	20	232	20	232	17	6
Stenographers and typists	711	20	691	13	635	—	—	—	—	—	—
Receptionists	783	25	758	25	681	—	—	—	—	—	—
Other information clerks	161	33	128	33	128	—	—	—	—	—	—
File clerks	746	479	267	426	247	53	8	53	8	8	8
Other records processing occupations, except financial	946	416	530	350	506	50	13	50	13	22	10
Bookkeepers, accounting, and auditing clerks	8 688	924	7 764	885	7 508	—	—	—	—	—	—
Payroll and timekeeping clerks	1 100	111	989	111	926	—	—	—	—	—	—
Other financial records processing occupations	578	126	452	119	422	—	—	—	—	—	—
Telephone operators	210	15	195	3	142	—	—	—	—	—	—
Mail and message distributing occupations	379	212	167	154	126	44	24	44	24	29	20
Production coordinators and expeditors	1 495	942	553	888	524	56	16	56	16	29	20
Traffic, shipping, and receiving clerks	3 974	3 290	684	2 808	611	330	54	330	54	287	61
Stock and inventory clerks	2 386	1 626	760	1 507	611	103	77	103	77	35	31
Other material recording, scheduling, and distributing clerks	1 541	1 181	360	1 020	332	140	28	140	28	39	31
Appliers and investigators	436	261	175	251	584	14	4	14	4	19	19
Dat-entry keyers	723	436	287	551	582	96	113	96	113	30	89
Other administrative support occupations	4 166	1 179	2 987	1 088	2 799	—	—	—	—	—	—
Service occupations	15 564	13 100	2 464	11 085	1 879	1 488	467	1 488	467	588	107
Private household occupations	5 048	4 679	369	4 045	339	490	23	490	23	61	8
Protective service occupations	4 523	4 168	355	3 584	325	462	23	462	23	52	8
Guards	525	511	14	461	14	28	—	28	—	9	—
Other protective service occupations	10 516	8 421	2 095	7 040	1 540	998	444	998	444	527	99
Food preparation and service occupation	323	160	163	151	128	27	21	27	21	16	—
Health service occupations	79	11	68	11	47	—	—	—	—	—	—
Cleaning and building service occupations, except household	9 621	7 888	1 733	6 609	1 246	910	389	910	389	499	99
Personal service occupations	493	362	131	269	119	79	7	79	7	12	—
Farming, forestry, and fishing occupations	89 285	87 603	1 682	71 208	1 204	14 438	412	14 438	412	1 276	26
Precision production, craft, and repair occupations	115 623	109 411	6 212	98 601	5 244	6 544	597	6 544	597	6 460	505
Mechanics and repairers	25 057	24 604	453	22 797	385	1 248	43	1 248	43	383	38
Supervisors, mechanics and repairers	572	572	—	559	—	2	—	2	—	—	—
Automobile mechanics, including body	1 360	1 346	14	1 217	14	80	—	80	—	29	—
Industrial machinery repairers	5 373	5 264	109	4 772	109	360	—	360	—	170	—
Electronic repairers, communications and industrial equipment	76	76	—	69	—	7	—	7	—	—	—
Heating, air conditioning, and refrigeration mechanics	98	98	—	97	—	1	—	1	—	9	—
Other mechanics and repairers	17 578	17 248	330	16 083	262	798	43	798	43	383	38
Construction trades	29 467	27 664	1 803	24 004	1 542	1 818	171	1 818	171	3 050	92
Supervisors, construction occupations	1 481	1 434	47	1 346	47	23	—	23	—	317	30
Carpenters	17 160	16 271	889	14 083	806	2 047	32	2 047	32	2 081	32
Electricians	5 184	4 946	238	4 558	216	201	—	201	—	333	30
Plumbers, construction and maintenance	1 008	991	17	588	148	93	52	93	52	147	17
Painters, pipefitters, and steamfitters	1 930	1 890	40	1 634	40	126	—	126	—	208	—
Other construction trades	2 704	2 332	372	1 795	285	328	87	328	87	258	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States											
	Lumber and wood products, except furniture											
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
Both sexes	Total		White		Black		Male		Female		Male	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con												
Precision production, craft, and repair occupations—Con												
Extraction occupations	136	136	125	—	11	—	2	—	312	—	162	—
Precision production occupations	60 963	57 007	51 675	3 317	3 467	383	2 817	375	376	352	59	88
Supervisors, production occupations	36 957	35 244	32 039	1 546	2 169	130	1 422	82	376	384	59	57
Precision metalworking occupations	6 804	6 470	5 787	212	525	75	232	75	379	315	75	44
Tool and die makers	303	278	264	13	—	—	16	6	385	358	25	18
Machinists	2 998	2 820	2 473	18	295	48	117	58	377	324	19	04
Sheet metal workers	459	441	386	18	23	—	47	—	297	25	—	—
Other precision metal workers	3 044	2 931	2 664	87	207	15	52	11	399	312	05	—
Precision textile, apparel, and furnishings machine workers	376	231	198	135	16	10	54	10	320	372	—	27
Precision food production occupations	69	52	32	6	20	11	—	—	350	25	115	14
Precision inspectors, testers, and related workers	91	78	67	13	11	—	—	—	518	557	—	—
Plant and system operators	934	918	804	12	87	—	39	—	378	329	88	—
Other precision production occupations	15 732	14 014	12 748	1 393	639	157	1 070	208	326	329	42	28
Operators, fabricators, and laborers												
Machine operators, assemblers, and inspectors	360 209	309 319	245 294	39 103	51 417	9 396	16 072	3 221	327	337	21	18
Machine operators and tenders, except precision	212 986	174 110	140 503	30 080	25 853	6 846	10 730	2 645	327	340	26	49
Metalworking and plastic working machine operators	158 594	134 700	107 833	18 475	21 396	4 443	7 158	1 319	331	338	25	18
Fabricating machine operators, n.e.c.	9 546	6 984	6 072	2 131	667	332	366	193	332	339	20	62
Metal and plastic processing and woodworking machine operators	316	255	180	61	61	—	33	4	335	364	39	08
Printing machine operators	79 683	71 484	59 628	6 610	9 392	1 271	2 828	285	334	332	27	35
Textile machine operators	533	420	329	92	108	21	325	38	335	376	19	95
Textile sewing machine operators	885	466	219	369	86	29	299	49	299	359	24	53
Textile machine operators	805	466	219	369	86	29	299	49	311	417	07	26
Laundry and dry cleaning machine operators	198	150	131	25	33	28	32	8	395	354	—	—
Packaging and filling machine operators	431	232	199	180	80	74	34	34	310	346	24	09
Furnace, kiln, and oven operators, except food	4 056	3 851	2 936	131	800	74	75	—	427	311	24	01
Other specified machine operators	14 513	11 517	9 298	2 330	1 683	551	848	161	332	345	28	40
Miscellaneous and not specified machine operators	47 828	39 067	28 621	6 289	8 413	2 068	2 876	592	322	338	21	06
Fabricators, assemblers, and hand working occupations	35 787	25 997	21 436	7 830	2 804	1 316	3 031	1 071	298	338	24	21
Welders and cutters	4 728	4 513	3 944	170	370	27	242	18	329	410	21	19
Solders and brazers	89	47	38	26	4	—	12	7	373	364	—	—
Assemblers	29 827	20 628	16 731	7 382	2 361	1 208	2 765	1 032	287	335	25	106
Hand working occupations	1 143	809	573	252	69	65	12	14	354	373	20	27
Production inspectors, testers, samplers, and weighers	18 605	13 413	11 234	3 775	1 653	1 087	541	255	345	353	10	93
Graders and sorters, except agricultural	12 351	9 346	7 611	2 014	1 302	759	433	149	344	344	39	16
Other production inspectors, testers, samplers, and weighers	6 254	4 067	3 623	1 761	351	328	108	106	349	371	28	04
Transportation and material moving occupations												
Transportation occupations	74 607	72 784	58 252	1 434	12 588	359	2 013	85	346	333	65	16
Motor vehicle operators	35 942	35 444	28 249	409	6 494	78	789	24	368	373	15	55
Truck drivers	35 606	35 108	27 938	409	6 474	78	773	24	367	373	12	68
Driver-sales workers	34 947	34 517	27 523	346	6 346	78	691	24	368	392	12	91
Other motor vehicle operators	115	115	73	—	42	—	—	—	394	43	43	116
Rail and water transportation occupations	544	476	342	63	86	—	82	—	330	304	29	162
Material moving occupations	336	336	311	—	20	—	16	—	431	—	—	—
Supervisors, material moving equipment operators	38 665	37 340	30 003	1 025	6 094	281	1 224	61	329	322	17	42
Crane, hoist and winch operators	302	289	13	13	12	—	5	—	417	322	14	30
Excavating, grading, and dozer machine operators	2 648	2 587	2 151	57	365	4	380	339	380	339	97	154
Other material moving equipment operators	2 423	2 399	2 216	16	158	8	408	—	476	410	21	16
Handlers, equipment cleaners, helpers, and laborers	33 292	32 065	25 365	939	5 559	269	1 178	61	321	319	26	30
Supervisors, handlers, equipment cleaners, and laborers	72 616	62 425	46 539	7 589	12 976	2 191	3 329	491	304	326	15	09
Helpers, craft and production	141	141	110	—	31	—	8	—	353	—	—	43
Construction laborers	2 129	1 849	1 491	201	239	59	213	12	279	321	11	32
Freight, stock, and material handlers	31 419	28 123	21 348	2 461	5 642	712	1 097	95	282	322	33	—
Garage and service station occupations, and equipment cleaners	599	509	460	67	37	21	21	7	303	291	37	12
Hand packers and packagers	4 031	2 103	1 593	522	330	252	145	147	301	356	24	—
Laborers, except construction	33 020	28 472	20 475	3 223	6 499	1 147	1 806	230	309	327	18	05

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Furniture and fixtures																
	Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
	Both sexes	Male	Female	Male	Female	Male											Female
Employed persons 16 years and over																	
Managerial and professional specialty occupations	530 144	367 595	162 549	307 317	134 601	36 935	20 838	42 100	11 028	34.3	35.0	55.4	56.8	7.4	2.8	3.4	0.9
Executive, administrative, and managerial occupations	44 758	36 897	7 861	35 347	7 405	795	202	1 350	359	40.8	36.3	87.3	86.4	36.6	18.7	8.1	4.5
Officials and administrators, public administration	37 574	31 206	6 368	30 007	6 050	633	140	1 136	301	41.5	36.3	86.7	88.5	36.4	17.1	8.6	4.5
Financial managers	1 451	1 101	350	1 074	350	—	—	35	10	30.0	35.5	100.0	96.6	100.0	19.1	0.7	—
Managers, marketing, advertising, and public relations	3 599	3 048	551	3 014	543	26	—	40	9	40.7	33.4	97.4	89.8	53.2	22.7	3.0	2.9
Administrators, education and related fields	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, medicine and health	1 718	1 370	348	1 276	337	73	—	48	37	38.9	35.5	88.5	—	44.2	12.4	3.1	—
Other specified managers	24 729	21 578	3 151	20 717	2 981	445	83	813	178	42.5	39.1	83.7	85.4	31.6	18.2	11.5	7.5
Managers and administrators, n.e.c.	21 898	19 037	2 861	18 254	2 712	421	83	664	178	42.3	38.8	85.0	86.4	33.1	17.4	—	—
Self-employed	2 831	2 541	290	2 463	269	24	—	149	44	44.0	42.5	74.1	74.8	20.9	25.5	97.5	81.0
Management related occupations	6 070	4 102	1 968	3 919	1 839	89	57	200	67	37.7	33.5	90.2	91.6	38.6	14.4	1.6	1.7
Accountants and auditors	2 374	1 497	877	2 797	797	27	29	27	29	34.7	33.4	99.5	98.1	57.1	19.0	0.8	1.5
Personnel, training, and labor relations specialists	1 168	858	310	773	294	52	9	111	28	39.4	32.2	66.3	77.4	16.2	12.9	1.2	—
Buyers and purchasing agents	2 102	1 475	627	1 436	600	10	13	55	3	38.9	33.8	93.3	90.6	29.9	9.9	2.0	0.8
Inspectors and compliance officers	19	6	13	6	7	—	—	7	—	50.0	30.0	100.0	46.2	—	—	100.0	—
Other management related occupations	407	266	141	266	141	—	—	7	—	39.2	41.1	97.0	91.5	56.0	10.6	4.9	11.3
Professional specialty occupations	7 184	5 691	1 493	5 340	1 355	162	62	214	58	35.5	36.1	90.8	77.4	37.7	25.3	5.5	4.4
Engineers, architects, and surveyors	3 461	3 227	234	3 127	194	36	—	61	29	35.9	31.4	96.9	86.3	39.6	9.8	—	—
Architects	89	65	24	58	24	—	—	7	24	34.2	25	92.3	100.0	38.5	—	—	—
Engineers	3 372	3 162	210	3 069	194	36	—	54	5	35.9	32.8	97.0	84.8	—	11.0	—	—
Civil engineers	35	35	—	31	—	4	—	—	—	41.1	—	100.0	—	28.6	—	—	—
Electrical and electronic engineers	1 478	1 381	10	1 381	10	—	—	—	—	30.0	30.0	95.7	100.0	73.9	—	—	—
Industrial engineers	1 778	1 613	165	1 572	149	20	—	35	5	34.5	33.0	96.6	83.6	38.8	13.9	—	—
Mechanical engineers	452	444	8	444	8	6	—	12	—	40.8	50.0	97.7	100.0	45.0	—	—	—
Other engineers	959	932	27	904	27	6	—	7	—	36.9	25	97.5	81.5	33.7	—	—	—
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer systems analysts and scientists	161	140	21	140	21	—	—	—	—	36.4	26.9	90.0	100.0	37.1	9.5	—	—
Operations and systems researchers and analysts	121	107	14	98	14	9	—	—	—	33.5	56.3	94.4	42.9	22.4	42.9	—	—
Mathematical scientists	30	17	13	17	13	—	—	—	—	60.8	50.6	100.0	100.0	64.7	15.4	—	—
Natural scientists	67	59	8	56	8	—	—	—	—	49.6	30.0	89.8	100.0	45.8	—	—	—
Chemists, except biochemists	42	42	—	39	—	—	—	—	—	50.7	30.0	85.7	—	42.9	—	—	—
Other natural scientists	25	17	8	17	8	—	—	—	—	37.5	30.0	100.0	100.0	52.9	—	—	—
Health diagnosing occupations	6	—	6	—	—	—	—	—	—	—	—	100.0	100.0	—	100.0	—	—
Health assessment and treating occupations	137	—	137	—	—	—	—	—	—	—	—	—	—	—	29.2	—	—
Registered nurses	130	—	130	—	—	—	—	—	—	—	—	—	—	—	26.9	—	—
Other health assessment and treating occupations	7	—	7	—	—	—	—	—	—	—	—	—	—	—	71.4	—	—
Teachers, except postsecondary	81	46	35	24	35	22	—	—	—	31.3	40.3	80.4	65.7	15.2	28.6	—	—
Social scientists and urban planners	220	176	44	176	44	—	—	—	—	32.1	25	100.0	84.1	85.2	36.4	6.3	—
Social and recreation workers	28	16	12	16	6	—	6	—	—	45.0	30.0	31.3	100.0	—	—	—	—
Writers, judges, and artists	20	20	—	20	—	—	—	—	—	39.0	—	100.0	—	100.0	—	—	—
Writers, artists, entertainers, and athletes	2 795	1 836	959	1 619	867	95	56	153	29	35.1	37.0	80.2	71.6	30.9	28.3	16.6	6.9
Other professional specialty occupations	57	47	10	47	10	—	—	—	—	34.4	58.8	61.7	40.0	27.7	20.0	—	—
Technical, sales, and administrative support occupations	71 881	32 688	39 193	29 349	36 616	2 164	1 504	2 049	1 797	36.1	32.8	76.4	85.6	17.2	4.9	3.8	1.1
Technicians and related support occupations	4 112	3 362	750	3 160	726	114	5	147	33	32.7	29.5	89.9	92.4	14.3	19.3	1.2	1.1
Health technologists and technicians	26	6	20	6	—	—	—	—	—	40.0	30.0	100.0	100.0	100.0	—	—	—
Licensed practical nurses	20	—	20	—	20	—	—	—	—	40.0	30.0	100.0	100.0	100.0	—	—	—
Other health technologists and technicians	6	6	—	6	—	—	—	—	—	—	—	100.0	—	—	—	—	—
Engineering and science technicians	3 049	2 606	443	2 458	422	87	5	125	30	32.9	29.1	89.4	88.9	12.9	17.4	1.5	0.5
Electrical and electronic technicians	160	132	28	102	12	21	—	8	—	27.8	25	87.1	42.9	2.3	14.3	—	—
Industrial and mechanical engineering technicians	166	143	23	143	23	—	—	—	—	33.1	31.1	94.4	100.0	37.1	—	—	—
Drafting and surveying technicians	2 114	1 820	294	1 715	289	66	5	73	22	32.1	27.0	90.9	93.5	8.9	20.4	1.8	0.7
Other engineering and science technicians	609	511	98	498	98	—	—	44	—	38.7	34.5	83.2	85.7	22.9	13.3	1.4	—
Technicians, except health, engineering, and science	1 037	750	287	696	284	27	—	22	3	32.0	30.0	91.3	97.2	18.8	23.7	—	2.1
Airplane pilots and navigators	21	21	—	21	—	—	—	—	—	33.8	—	100.0	—	23.8	—	—	—
Air traffic controllers and broadcast equipment operators	19	14	5	14	5	—	—	—	—	30.0	40.0	100.0	100.0	30.2	—	—	—
Computer programmers	604	398	206	366	206	19	—	8	—	28.4	29.9	100.0	97.1	30.2	33.0	—	2.9
Other technicians, except health, engineering, and science	393	317	76	295	73	8	—	14	3	37.4	33.2	79.5	97.4	5.0	—	—	—

¹Persons of Spanish origin may be of any race

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Furniture and fixtures											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	Total			White			Male	Female	Male	Female	Male	Female
	Both sexes	Male	Female	Male	Female	Black						
Technical, sales, and administrative support occupations—Con												
Supervisors, administrative support occupations—Con												
Supervisors and proprietors, sales occupations	14 459	11 899	2 560	11 553	2 400	179	292	112	41.6	33.9	89.2	81.6
Salaries	1 464	1 334	130	1 109	235	6	79	22	41.0	39.1	79.3	72.7
Self-employed	1 223	938	285	915	258	4	72	22	40.5	37.7	77.5	72.6
Sales representatives, finance and business services	241	196	45	194	45	3	6	—	44.2	53.2	87.8	73.3
Sales representatives, commodities, except retail	155	93	62	90	56	3	6	—	40.5	31.1	74.2	91.9
Sales workers, retail and personal services	12 459	10 534	1 925	10 245	1 819	141	207	61	41.9	33.9	90.3	84.1
Cashiers	359	121	238	92	217	29	—	29	25	27.6	90.1	71.0
Other sales occupations, retail and personal services	186	40	146	25	131	15	—	29	25	25.0	70.0	74.7
Other sales occupations	173	81	92	67	86	14	—	—	25	34.5	100.0	65.2
Sales related occupations	22	17	5	17	5	—	—	—	37.3	40.0	100.0	100.0
Administrative support occupations, including clerical	53 310	17 427	35 883	14 636	33 490	1 871	1 610	1 652	33.3	32.8	65.2	85.7
Supervisors, administrative support occupations	3 620	2 596	1 024	2 339	936	153	212	67	37.8	37.4	75.5	92.0
Computer equipment operators	1 323	822	501	386	442	23	42	30	30.3	29.7	94.6	92.1
Secretaries, stenographers, and typists	11 716	169	11 547	156	11 032	13	—	426	43.9	31.9	74.6	90.8
Secretaries	10 543	130	10 413	124	10 026	6	—	366	48.8	32.0	81.5	91.3
Stenographers and typists	1 173	39	1 134	32	1 006	7	—	60	27.8	30.5	51.3	85.9
Receptionists	1 025	—	1 025	—	965	—	—	58	26.5	30.2	—	90.2
Other information clerks	221	37	184	29	169	—	5	9	36.4	25	65.8	39.1
File clerks	1 345	339	1 006	326	899	13	5	31	36.4	25	100.0	90.2
Other records processing occupations, except financial	1 729	441	1 288	353	1 134	60	43	114	33.5	31.5	77.6	83.4
Bookkeepers, accounting, and auditing clerks	6 336	582	5 754	501	5 500	24	15	242	40.4	38.9	92.1	90.9
Payroll and timekeeping clerks	1 261	103	1 158	103	1 054	—	6	27	45.5	33.3	100.0	96.5
Other financial records processing occupations	918	137	781	123	658	—	25	14	34.3	35.0	83.9	84.6
Telephone operators	309	13	296	6	269	—	7	7	30.9	40.1	46.2	82.4
Mail and message distributing occupations	496	280	216	228	159	43	16	20	27.7	30.6	64.6	67.6
Production coordinators and expeditors	3 189	1 701	1 488	1 541	1 374	116	72	120	34.7	32.2	73.5	76.9
Traffic, shipping, and receiving clerks	7 859	6 431	1 228	5 183	1 088	109	867	35	30.4	32.6	52.1	66.7
Stock and inventory clerks	3 501	2 038	1 463	1 778	1 359	156	169	54	32.6	34.7	62.8	71.4
Other material recording, scheduling, and distributing clerks	494	296	198	258	164	32	17	9	43.2	32.8	61.1	54.5
Adapters and investigators	1 773	303	670	268	602	30	28	28	33.3	32.1	70.3	92.7
Data-entry keyers	1 173	30	1 143	15	1 005	5	7	64	33.3	28.4	100.0	92.7
Other administrative support occupations	5 822	1 289	4 533	1 045	4 147	174	90	281	34.0	32.7	69.8	83.3
Service occupations	9 796	8 107	1 689	6 702	1 150	1 101	593	92	46.8	42.8	34.7	36.3
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	1 891	1 820	71	1 645	69	162	16	—	57.2	46.5	31.2	52.1
Guards	1 849	1 778	71	1 603	69	162	16	—	57.3	46.5	30.5	52.1
Other protective service occupations	42	42	—	42	—	—	—	—	49.3	—	59.5	—
Service occupations, except protective and household	7 905	6 287	1 618	5 057	1 081	939	577	92	42.4	42.7	35.7	35.6
Food preparation and service occupation	276	107	169	70	158	29	8	6	37.8	38.4	41.1	56.8
Health service occupations	52	2	50	2	43	—	—	—	30.0	47.9	100.0	56.0
Cleaning and building service occupations, except household	7 403	6 093	1 310	4 926	822	884	569	75	42.9	43.3	35.2	32.3
Personal service occupations	174	85	89	59	58	26	—	11	28.8	41.6	69.4	32.6
Farming, forestry, and fishing occupations	484	422	62	289	49	124	28	—	32.1	38.2	47.4	56.5
Precision production, craft, and repair occupations	128 663	110 261	18 402	96 045	14 527	7 634	13 080	1 087	35.0	35.6	57.4	47.2
Mechanics and repairers	8 819	7 933	886	7 121	751	576	505	41	38.3	33.0	51.6	50.8
Supervisors, mechanics and repairers	150	150	—	139	11	11	—	—	49.0	—	29.3	—
Automobile mechanics, including body	277	249	28	200	15	49	7	—	36.3	46.3	47.8	17.9
Industrial machinery repairers	4 537	4 289	248	3 842	231	331	243	9	37.4	31.0	49.5	36.7
Electronic repairers, communications and industrial equipment	112	80	32	80	32	—	5	—	40.7	33.7	55.0	56.3
Heating, air conditioning, and refrigeration mechanics	111	109	2	75	2	13	30	—	41.0	30.0	86.2	100.0
Other mechanics and repairers	3 632	3 056	576	2 785	471	172	213	32	38.9	34.2	54.6	58.0
Construction trades	16 549	15 550	999	12 846	781	963	3 512	100	32.6	33.1	55.6	54.4
Supervisors, construction occupations	326	320	6	292	6	6	—	—	40.8	50.0	67.2	100.0
Carpenters	12 777	12 154	623	10 066	497	627	2 958	75	32.0	31.9	55.0	61.5
Electricians	1 355	1 109	246	1 056	46	42	46	—	37.0	29.8	70.8	28.3
Painters, construction and maintenance	1 480	1 264	216	824	153	228	404	14	32.0	36.0	44.1	38.0
Plumbers, pipefitters, and steamfitters	171	171	—	165	6	6	10	—	39.2	—	51.5	—
Other construction trades	640	532	108	443	95	54	61	11	33.0	40.7	60.5	54.6
Percent completed 4 or more years of college												
Male	30.9	22.5	16.6	30.9	22.5	16.6	—	—	30.9	22.5	16.6	10.0
Female	13.2	13.3	13.0	13.2	13.0	13.0	—	—	13.2	13.0	13.0	73.3
Percent self-employed												
Male	9.1	16.6	73.3	9.1	16.6	73.3	—	—	9.1	16.6	73.3	7.2
Female	6.7	10.0	73.3	6.7	10.0	73.3	—	—	6.7	10.0	73.3	7.2

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Furniture and fixtures						
	Race					Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White		Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female													
Employed persons 16 years and over—Con.																	
Precision production, craft, and repair occupations—Con.																	
Extraction occupations	64	42	35	11	7	6 088	2 874	11	9 063	25.0	38.8	69.0	40.9	—	—	—	—
Precision production occupations	103 231	86 736	76 043	12 984	2 874	1 745	1 129	—	946	35.9	32.2	58.2	46.6	4.2	1.6	5.3	1.2
Supervisors, production occupations	33 262	29 896	27 048	2 849	745	1 435	300	—	252	37.9	32.6	61.6	57.2	6.4	3.3	1.7	—
Precision metalworking occupations	5 924	5 379	4 619	760	103	4 099	580	—	27	33.7	37.9	61.9	59.1	2.8	1.8	0.2	—
Tool and die makers	2 753	2 413	1 936	477	99	1 536	340	—	26	38.3	41.0	70.9	100.0	2.6	—	0.1	—
Mechanists	2 753	2 413	1 936	477	99	1 536	340	—	26	38.3	41.0	70.9	100.0	2.6	—	0.1	—
Sheet metal workers	581	547	403	144	34	1 962	223	—	31	43.5	43.5	69.7	75.5	2.9	—	—	—
Other metal workers	872	709	503	376	34	1 962	223	—	31	43.5	43.5	69.7	75.5	2.9	—	—	—
Precision textile, apparel, and furnishings machine workers	17 727	13 725	10 207	3 518	12	11 207	2 011	—	29	37.8	37.8	62.5	65.6	2.4	6.1	1.0	—
Precision food production occupations	387	348	267	181	11	336	48	—	344	32.9	32.9	48.1	50.8	1.1	0.5	2.1	1.2
Precision inspectors, testers, and related workers	100	90	53	37	—	55	6	—	64	28.5	30.6	50.3	35.9	0.6	—	1.7	—
Plant and system operators	475	463	426	47	13	426	12	—	—	28.8	28.8	51.1	80.0	—	—	—	—
Other precision production occupations	45 356	36 835	32 363	6 557	2 496	1 735	761	—	323	40.7	32.7	58.6	39.5	11.0	—	—	—
Operators, fabricators, and laborers	274 562	179 220	139 585	74 854	25 117	15 463	9 654	—	7 693	35.8	32.0	44.7	44.7	1.9	0.9	1.4	0.4
Machine operators, assemblers, and inspectors	221 192	136 847	106 918	66 456	18 045	13 375	4 670	—	6 883	32.3	32.3	44.5	44.8	2.0	0.9	1.7	0.4
Machine operators and tenders, except precision	131 209	78 702	62 233	42 031	10 643	7 838	2 805	—	4 249	33.4	33.4	42.3	43.5	1.6	0.7	0.8	0.4
Metalworking and plastic working machine operators	20 348	12 387	10 271	6 251	1 204	1 448	1 777	—	377	34.1	33.6	39.9	40.0	1.1	0.4	0.1	0.2
Fabricating machine operators, n.e.c.	1 102	597	472	422	71	65	37	—	55	35.6	33.6	45.2	49.7	1.2	—	1.0	—
Metal and plastic processing and woodworking machine operators	28 196	21 796	18 179	5 342	2 580	799	381	—	1 682	33.5	33.5	44.1	45.0	2.3	1.5	1.8	0.7
Printing machine operators	458	295	242	115	26	48	10	—	49	29.0	35.1	54.6	57.7	7.5	—	2.4	—
Textile machine operators	1 558	838	720	551	82	135	60	—	27	28.1	29.0	45.7	44.9	0.7	—	1.1	—
Textile sewing machine operators	19 089	1 985	1 463	14 524	235	1 426	431	—	1 777	31.3	39.8	47.3	42.5	2.0	0.7	0.5	0.6
Laundry and dry cleaning machine operators	92	37	25	22	—	24	12	—	—	25	—	35.1	21.8	—	—	—	—
Packaging and filling machine operators	350	148	104	164	29	37	30	—	8	29.6	39.0	41.9	47.5	—	—	—	—
Furnace, kiln, and oven operators, except food	840	793	674	30	119	10	18	—	47	33.2	33.2	46.4	42.6	3.4	—	—	—
Other specified machine operators	39 588	13 138	6 450	5 021	1 795	1 252	543	—	1 873	33.3	33.3	42.5	45.0	1.1	0.3	1.0	0.8
Miscellaneous and not specified machine operators	39 588	26 688	19 791	5 897	4 502	2 594	1 392	—	1 392	33.0	33.0	41.0	45.1	1.4	0.6	0.4	0.1
Fabricators, assemblers, and hand working occupations	78 538	53 082	40 377	19 217	6 875	4 590	2 370	—	9 724	33.9	30.2	47.1	46.4	2.5	1.1	3.2	0.4
Welders and cutters	8 457	7 362	5 655	1 707	946	1 195	751	—	1 236	35.3	35.3	55.9	45.7	1.8	0.4	0.2	—
Solders and brazers	129	83	38	29	26	36	17	—	36	12.0	28.3	12.0	28.3	—	—	—	—
Assemblers	68 466	45 026	34 225	5 816	4 184	5 816	2 247	—	37	30.0	33.8	45.8	46.8	2.6	1.2	3.7	0.4
Hand working occupations	1 486	611	469	643	87	211	25	—	29	29.8	32.0	46.0	37.5	1.8	0.1	3.9	0.2
Production inspectors, testers, samplers, and weighers	11 445	5 063	4 308	5 208	527	947	264	—	414	38.7	38.2	50.3	48.8	3.2	1.6	0.1	0.3
Graders and sorters, except agricultural	522	277	224	217	51	28	—	—	14	33.9	33.9	38.6	55.9	6.1	1.2	—	—
Other production inspectors, testers, samplers, and weighers	10 923	4 786	4 084	4 991	476	919	264	—	400	38.1	38.9	51.0	48.6	3.1	1.6	0.1	0.2
Transportation and material moving occupations	19 055	18 088	14 145	759	198	3 056	20	—	1 650	32.2	33.1	48.0	53.9	1.3	0.9	0.4	0.2
Transportation occupations	11 061	10 878	8 575	144	1 878	39	17	—	890	35.1	35.1	46.2	50.3	1.3	3.3	0.6	1.1
Motor vehicle operators	11 025	10 842	8 544	144	1 878	39	17	—	890	37.0	37.0	46.2	50.3	1.3	3.3	0.6	1.1
Truck drivers	10 644	10 488	8 248	117	1 829	39	31	—	851	37.5	37.5	45.9	41.7	1.3	3.8	0.6	1.3
Driver-sales workers	163	160	124	3	31	—	—	—	—	35.0	35.0	65.0	100.0	—	—	—	—
Other motor vehicle operators	218	194	172	24	18	—	—	—	29	25	—	46.4	100.0	—	—	—	—
Rail and water transportation occupations	36	36	31	—	—	—	—	—	—	30.0	—	55.6	—	—	—	—	—
Material moving equipment operators	7 994	7 210	615	159	178	1 178	20	—	760	31.5	31.5	50.6	54.7	1.3	0.4	0.1	—
Supervisors, material moving equipment operators	89	89	79	13	7	13	—	—	13	69.7	—	69.7	—	14.6	—	—	—
Crane, hoist and winch operators	194	187	148	7	17	—	—	—	19	31.4	31.4	50.3	100.0	—	—	—	—
Excavating, grading, and dozer machine operators	55	42	42	13	—	—	—	—	8	28.3	25.7	9.5	100.0	—	—	—	—
Other material moving equipment operators	7 656	6 892	5 301	595	154	1 154	159	—	720	31.7	29.8	50.6	53.5	1.1	0.4	0.1	—
Handlers, equipment cleaners, helpers, and laborers	34 315	24 285	18 522	7 639	4 016	1 890	790	—	3 270	29.2	29.2	43.8	43.1	1.5	0.8	0.4	0.2
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	59	51	45	8	6	—	—	—	—	31.7	31.7	41.2	100.0	—	—	—	—
Helpers, craft and production	2 191	1 720	1 237	312	201	148	19	—	529	27.1	27.1	41.4	47.1	2.0	1.3	1.0	0.8
Construction laborers	221	155	113	55	42	11	9	—	31	31.0	28.8	56.1	45.5	1.9	0.6	0.1	—
Freight, stock, and material handlers	7 308	6 241	4 930	862	1 096	184	31	—	401	26.8	34.9	44.6	45.4	1.6	0.6	0.1	—
Garage and service station occupations, and equipment cleaners	311	185	154	63	12	56	7	—	23	32.1	32.1	47.6	20.6	3.8	—	—	—
Hand packers and packagers	8 820	5 126	3 845	3 021	786	422	388	—	801	29.0	35.6	44.2	44.0	1.1	0.7	0.7	0.3
Laborers, except construction	15 405	10 807	8 198	3 318	1 873	1 069	345	—	1 507	34.4	30.6	43.3	41.9	1.6	0.7	0.7	0.3

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Stone, clay, glass, and concrete products									
	Race				Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Black		Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over	650 733	497 382	431 676	133 485	44 229	14 051	33 973	8 931	37.4	36.5
Managerial and professional specialty occupations	78 719	65 779	63 634	12 167	766	381	1 277	444	42.3	36.9
Executive, administrative, and managerial occupations	57 190	49 136	47 906	7 576	481	252	914	198	43.4	38.5
Officials and administrators, public administration	2 289	1 930	1 885	325	15	19	59	11	42.3	37.9
Financial managers	5 676	5 241	5 676	414	18	—	21	14	44.5	40.0
Managers, marketing, advertising, and public relations	52	44	44	8	—	—	—	—	39.6	40.0
Administrators, education and related fields	—	—	—	—	—	—	—	—	—	—
Managers, medicine and health	2 106	1 780	1 757	320	15	6	30	23	44.9	40.3
Other specified managers	33 059	33 208	32 400	3 667	300	77	629	116	43.9	41.7
Managers and administrators, n.e.c.	37 855	30 701	29 932	2 975	294	77	549	110	43.1	42.1
Salaries	3 204	2 507	2 468	692	6	—	80	6	41.6	39.7
Self-employed	10 008	6 933	6 616	2 842	133	150	175	34	39.3	34.6
Management related occupations	5 160	3 421	3 263	1 395	54	89	30	17	35.7	33.0
Accountants and auditors	1 906	1 407	1 316	461	50	32	107	6	41.7	37.1
Personnel, training, and labor relations specialists	2 177	1 520	1 478	611	15	24	6	11	43.5	36.8
Buyers and purchasing agents	72	86	86	6	—	—	6	—	70.9	50.0
Inspectors and compliance officers	673	499	473	169	14	5	6	—	39.8	40.4
Other management related occupations	21 529	16 643	15 728	4 591	285	129	363	246	38.1	34.3
Professional specialty occupations	10 998	10 595	10 081	361	149	24	178	—	38.9	33.5
Engineers, architects, and surveyors	10 938	10 544	10 034	355	140	16	178	—	40.0	33.8
Architects	10 933	10 544	10 034	355	140	16	178	—	38.6	33.5
Engineers	558	499	460	135	20	11	88	—	39.1	32.8
Civil engineers	2 862	2 777	2 691	210	30	11	28	—	38.9	26.8
Electrical and electronic engineers	1 967	1 742	1 676	125	14	5	51	—	46.7	—
Industrial engineers	1 847	1 742	1 676	125	14	5	51	—	46.7	—
Mechanical engineers	4 985	4 855	4 607	125	76	9	—	—	37.1	31.8
Other engineers	27	27	18	—	—	—	—	—	—	—
Surveyors and mapping scientists	575	491	475	79	4	5	3	—	37.1	31.8
Computer systems analysts and scientists	329	264	261	65	3	—	3	—	38.6	33.1
Operations and systems researchers and analysts	110	79	79	31	—	—	—	—	31.4	26.3
Mathematical scientists	2 694	1 694	1 552	492	45	26	31	30	39.6	32.6
Natural scientists	1 957	1 421	1 304	462	20	26	30	30	40.3	32.7
Chemists, except biochemists	303	273	248	30	25	—	—	—	34.5	25
Other natural scientists	35	35	35	9	—	—	—	—	58.3	50.0
Health diagnosing occupations	543	10	518	10	—	15	2	13	43.3	47.2
Health assessment and treating occupations	505	6	499	6	—	9	13	400	40.0	47.6
Registered nurses	38	4	34	4	—	6	2	—	60.0	41.7
Other health assessment and treating occupations	368	131	110	237	15	—	—	4	31.1	44.1
Teachers, except postsecondary	544	417	400	127	2	7	5	—	36.9	32.2
Social scientists and urban planners	17	4	4	—	—	—	—	—	45.0	30.0
Social and recreation workers	265	240	240	25	—	—	—	—	36.7	31.6
Writers, artists, entertainers, and athletes	5 851	2 631	2 443	2 568	62	52	134	199	34.7	33.5
Other professional specialty occupations	125	52	40	73	5	—	7	—	43.8	31.4
Technical, sales, and administrative support occupations	96 729	46 453	42 911	47 086	2 298	2 207	1 646	1 567	38.8	34.8
Technicians and related support occupations	13 346	11 067	10 231	2 001	548	12	207	133	34.6	32.2
Health technicians and technicians	137	79	65	46	6	—	—	—	38.3	37.9
Licensed practical nurses	51	15	7	30	—	—	—	—	40.0	40.0
Other health technicians and technicians	86	64	58	16	6	—	—	—	35.0	33.6
Engineering and science technicians	10 026	8 460	7 873	1 381	373	125	181	118	34.6	33.3
Electrical and electronic technicians	613	285	255	28	16	—	12	—	37.4	47.5
Industrial and mechanical engineering technicians	2 264	1 711	1 644	18	67	—	6	—	41.1	50.0
Drafting and surveying technicians	2 502	2 331	2 213	151	281	14	47	6	32.0	29.1
Other engineering and science technicians	6 667	5 318	4 893	1 184	281	111	122	112	35.7	33.7
Technicians, except health, engineering, and science	3 183	2 528	2 293	574	169	36	26	15	34.5	29.9
Airplane pilots and navigators	122	122	122	—	—	—	—	—	32.8	—
Air traffic controllers and broadcast equipment operators	59	56	56	3	—	—	—	—	32.9	30.0
Computer programmers	1 150	759	678	352	68	19	6	—	31.6	29.1
Other technicians, except health, engineering, and science	1 852	1 591	1 437	219	101	17	20	15	38.6	31.9

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

United States												
Stone, clay, glass, and concrete products												
Employed persons 16 years and over—Con.												
Technical, sales, and administrative support occupations—Con.												
Sales occupations												
Supervisors and proprietors, sales occupations												
Salaried												
Self-employed												
Sales representatives, finance and business services												
Sales representatives, commodities, except retail												
Sales workers, retail and personal services												
Cashiers												
Other sales occupations, retail and personal services												
Sales related occupations												
Administrative support occupations, including clerical												
Supervisors, administrative support occupations												
Computer equipment operators												
Secretaries, stenographers, and typists												
Secretaries												
Stenographers and typists												
Receptionists												
Other information clerks												
File clerks												
Other records processing occupations, except financial												
Bookkeepers, accounting, and auditing clerks												
Payroll and timekeeping clerks												
Other financial records processing occupations												
Telephone operators												
Mail and message distributing occupations												
Production coordinators and expeditors												
Traffic, shipping, and receiving clerks												
Stock and inventory clerks												
Other material recording, scheduling, and distributing clerks												
Adjusters and investigators												
Data-entry keyers												
Other administrative support occupations												
Service occupations												
Private household occupations												
Protective service occupations												
Guards												
Other protective service occupations												
Service occupations, except protective and household												
Food preparation and service occupation												
Health service occupations												
Cleaning and building service occupations, except household												
Personal service occupations												
Farming, forestry, and fishing occupations												
Precision production, craft, and repair occupations												
Mechanics and repairers												
Supervisors, mechanics and repairers												
Automobile mechanics, including body												
Industrial machinery repairers												
Electronic repairers, communications and industrial equipment												
Heating, air conditioning, and refrigeration mechanics												
Other mechanics and repairers												
Construction trades												
Supervisors, construction occupations												
Carpenters												
Electricians												
Painters, construction and maintenance												
Plumbers, pipefitters, and steamfitters												
Other construction trades												

*Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Stone, clay, glass, and concrete products												
United States												
Race												
Total			White		Black		Spanish origin ¹		Median age		Percent high school graduates	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con												
Precision production, craft, and repair occupations—Con												
Extraneous occupations	477	458	379	11	39	8	58	—	36 1	30 9	56 3	73 7
Precision production occupations	67 623	62 121	56 865	4 769	3 374	453	3 416	536	41 2	38 4	69 5	63 8
Supervisors, production occupations	43 747	40 824	2 628	2 628	2 083	192	2 080	247	42 2	41 4	71 5	64 3
Precision metalworking occupations	12 623	12 016	10 984	503	81	67	613	77	39 8	33 8	70 1	61 8
Tool and die makers	1 517	1 489	8 488	28	85	6	66	6	41 2	25	71 7	71 4
Machinists	9 738	9 331	8 488	349	39	39	507	67	39 2	34 9	70 6	58 0
Sheet metal workers	450	450	427	—	23	—	5	—	44 1	—	65 8	—
Other precision metal workers	918	746	709	126	29	42	35	4	31 3	31 3	63 0	69 2
Precision textile, apparel, and furnishings machine workers	181	94	36	62	58	2	—	44	31 0	46 5	22 3	11 5
Precision food production occupations	141	118	88	16	18	—	26	—	39 4	33 2	39 8	91 3
Precision inspectors, testers, and related workers	295	174	121	58	—	54	9	9	47 2	40 4	71 3	74 4
Plant and system operators	2 444	2 375	2 167	62	167	—	37	—	43 2	49 6	67 4	53 6
Other precision production occupations	8 192	6 520	5 769	1 440	336	117	660	159	33 9	32 9	58 4	65 8
Operators, fabricators, and laborers	339 591	258 524	211 194	66 533	32 731	10 515	23 784	6 196	34 1	37 2	55 5	55 5
Machine operators, assemblers, and inspectors	197 945	136 480	61 465	11 539	6 777	7 507	13 247	4 761	33 9	37 8	57 2	55 8
Machine operators and tenders, except precision	124 548	97 041	27 507	22 499	12 483	3 511	9 284	2 605	34 0	36 3	55 9	53 2
Metalworking and plastic working machine operators	10 797	7 767	6 569	2 627	783	259	713	185	34 5	37 7	55 5	51 6
Fabricating machine operators, n.e.c.	407	325	317	56	—	17	38	—	31 2	42 3	62 5	63 4
Metal and plastic processing and woodworking machine operators	9 096	7 000	5 895	1 788	801	275	502	120	34 2	35 3	57 3	59 9
Pinning machine operators	647	353	307	235	38	—	25	44	35 8	39 2	67 4	66 0
Textile machine operators	1 118	696	422	312	69	101	55	17	30 8	34 5	59 1	41 2
Textile sewing machine operators	744	182	562	426	19	79	34	90	33 1	40 9	48 4	40 2
Laundry and dry cleaning machine operators	17	17	11	—	6	—	—	—	36 5	—	64 7	—
Packaging and filling machine operators	2 064	1 198	866	757	220	99	119	95	38 0	30 9	51 5	—
Furnace, kiln, and oven operators, except food	8 627	8 198	429	389	757	25	509	30	38 8	34 1	59 0	68 1
Other specified machine operators	30 964	25 255	21 048	4 845	2 755	533	2 496	540	33 1	35 3	56 2	53 1
Miscellaneous and not specified machine operators	60 067	46 050	14 017	36 028	7 025	2 085	4 793	1 484	34 0	36 3	54 8	52 4
Fabricators, assemblers, and hand working occupations	43 548	29 394	14 154	11 661	3 244	1 664	3 184	1 172	33 0	35 7	58 1	58 3
Welders and cutters	8 133	7 887	6 709	165	620	74	881	26	34 6	33 2	54 8	39 0
Solderers and brazers	403	165	137	155	7	—	13	—	34 6	33 2	48 5	55 9
Assemblers	22 678	13 380	10 581	7 334	1 809	1 391	1 498	897	31 5	35 3	60 4	53 3
Hand working occupations	12 334	7 962	6 702	4 007	808	149	792	242	33 8	36 6	57 4	70 3
Production inspectors, testers, samplers, and weighers	29 849	10 045	19 804	16 780	1 050	2 332	779	984	35 5	41 1	67 8	57 8
Graders and sorters, except agricultural	1 753	765	570	805	114	132	101	49	33 0	38 7	50 6	57 1
Other production inspectors, testers, samplers, and weighers	28 096	9 280	7 909	15 975	918	2 218	678	935	35 8	41 2	69 2	57 8
Transportation and material moving occupations	70 324	68 590	57 019	1 458	8 474	183	5 182	114	37 4	31 6	50 2	63 3
Transportation occupations	42 247	41 863	33 138	324	5 031	50	2 874	10	38 2	32 1	49 9	65 4
Motor vehicle operators	41 867	41 497	34 810	310	5 014	50	2 871	10	38 2	32 1	49 9	64 1
Truck drivers	41 350	41 041	34 478	263	4 916	36	2 829	10	38 2	32 4	49 7	67 3
Driver-sales workers	90	74	67	2	7	—	—	—	41 7	25	60 8	100 0
Other motor vehicle operators	427	382	265	45	91	—	42	—	41 3	34 3	63 9	28 9
Rail and water transportation occupations	380	366	328	14	14	—	3	—	41 3	32 8	47 5	100 0
Material moving equipment operators	26 077	26 727	21 881	1 134	3 443	133	2 308	104	35 8	31 4	50 6	62 7
Supervisors, material moving equipment operators	154	150	131	4	13	—	6	—	34 2	40 0	88 7	70 3
Crane, hoist and winch operators	2 624	2 552	2 120	67	341	5	185	8	39 0	40 0	29 5	68 1
Excavating, grading, and dozer machine operators	1 721	1 697	1 444	18	189	6	96	—	44 0	34 0	45 3	66 7
Other material moving equipment operators	23 578	22 328	18 186	1 045	2 900	122	2 071	96	34 9	31 5	50 8	62 2
Handlers, equipment cleaners, helpers, and laborers	71 322	53 454	42 636	14 135	7 480	2 825	5 355	1 321	31 3	36 0	56 4	53 6
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	91	89	68	2	21	—	—	—	45 7	30 0	73 0	100 0
Helpers, craft and production	2 024	1 826	1 458	170	220	23	254	—	30 2	38 9	54 5	50 0
Construction laborers	2 148	2 059	1 610	61	302	28	256	75	30 5	37 0	52 5	34 8
Freight, stock, and material handlers	13 254	11 924	9 739	1 097	1 646	186	857	75	32 0	33 1	56 0	52 3
Gauge and service station occupations, and equipment cleaners	1 324	1 079	843	220	142	25	102	6	33 8	36 9	56 1	49 0
Hand packers and packagers	19 391	8 043	6 400	8 869	1 114	1 915	843	774	37 7	30 4	62 7	54 3
Hand packers, except construction	33 050	28 434	22 518	3 716	4 035	648	3 043	461	31 2	33 2	55 1	53 1

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Primary iron and steel industries											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Black		Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
886 687	796 449	90 238	661 691	74 857	107 902	12 896	48 025	3 963	39.4	34.5	66.4	79.7
Employed persons 16 years and over												
Managerial and professional specialty occupations	67 668	60 814	58 157	6 315	1 678	413	1 129	107	43.0	37.2	94.4	95.8
Executive, administrative, and managerial occupations	42 863	38 407	36 813	4 125	1 049	253	850	74	43.9	36.4	92.4	94.9
Officials and administrators, public administration	6	6	6	—	—	—	—	—	50.0	—	100.0	—
Financial managers	1 885	1 667	1 667	208	3	7	12	—	40.8	37.0	99.2	94.5
Managers, marketing, advertising, and public relations	3 447	3 301	3 283	146	—	—	17	6	44.9	41.5	99.0	96.6
Administrators, education and related fields	50	45	45	5	—	—	—	—	34.4	30.0	93.3	100.0
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	2 004	1 750	1 607	243	133	85	23	—	42.8	33.2	94.6	100.0
Managers and administrators, n.e.c.	22 496	20 986	19 130	1 409	456	85	557	34	45.7	41.0	90.0	91.3
Salaried	21 829	20 349	19 531	1 383	448	85	515	16	45.6	40.8	90.0	92.8
Self-employed	667	637	599	26	8	—	42	18	49.9	50.0	76.5	20.0
Management related occupations	12 975	10 652	10 078	2 120	457	158	241	34	40.6	34.1	94.5	96.6
Accountants and auditors	5 899	4 717	4 472	1 089	180	62	80	—	38.4	33.0	98.3	96.4
Personnel, training, and labor relations specialists	3 202	2 786	2 536	372	206	36	94	23	43.0	36.2	97.1	94.5
Buyers and purchasing agents	2 407	1 890	1 865	475	25	36	46	11	40.6	38.0	93.2	97.9
Inspectors and compliance officers	369	316	304	65	12	—	14	—	42.6	31.8	98.2	100.0
Other management related occupations	1 098	943	901	131	34	24	7	—	41.5	31.0	98.0	100.0
Professional specialty occupations	24 805	22 407	21 344	2 190	629	160	279	33	41.1	39.1	97.8	97.5
Engineers, architects, and surveyors	17 527	16 879	16 153	529	400	82	200	4	41.3	29.7	97.9	95.1
Architects	32	32	27	—	5	—	—	—	45.0	—	54.3	—
Engineers	17 467	16 819	16 098	648	395	82	200	4	41.3	29.7	97.9	95.1
Civil engineers	1 061	1 042	1 042	19	30	—	10	—	45.8	25	97.1	100.0
Electrical and electronic engineers	1 096	1 085	1 044	6	28	—	10	—	36.8	25	99.4	100.0
Industrial engineers	5 119	4 818	4 682	250	98	33	53	—	39.8	32.7	98.5	96.0
Mechanical engineers	2 174	2 143	2 075	11	56	—	43.7	—	43.7	30.0	97.1	100.0
Other engineers	8 017	7 711	7 303	243	183	49	96	4	41.8	27.1	98.9	93.5
Surveyors and mapping scientists	28	28	28	—	—	—	—	—	41.7	—	100.0	—
Computer systems analysts and scientists	1 111	1 029	968	77	56	5	—	—	36.6	28.7	100.0	100.0
Operations and systems researchers and analysts	708	657	647	51	4	—	—	—	38.6	25	99.1	100.0
Mathematical scientists	198	133	110	65	15	—	16	—	47.3	38.8	100.0	100.0
Natural scientists	1 863	1 711	1 608	127	70	19	34	—	42.9	37.2	97.3	100.0
Chemists, except biochemists	1 720	1 584	1 495	111	70	19	21	—	42.8	41.0	97.4	100.0
Other natural scientists	143	127	113	16	—	—	13	—	45.2	25	95.3	100.0
Health diagnosing occupations	129	129	109	—	—	—	6	—	57.2	—	100.0	—
Health assessment and treating occupations	1 190	1 021	96	1 060	6	23	—	29	31.8	50.3	100.0	99.1
Registered nurses	1 103	28	28	1 047	23	23	—	29	35.0	50.4	100.0	99.1
Other health assessment and treating occupations	87	74	68	13	6	—	—	—	30.9	25	100.0	100.0
Teachers, except postsecondary	186	179	158	7	19	—	9	—	43.7	30.0	86.0	100.0
Social scientists and urban planners	322	234	213	69	—	19	—	—	46.2	29.3	100.0	100.0
Social and recreation workers	25	25	25	—	—	—	—	—	25.7	—	52.0	—
Lower and judges	314	275	275	41	—	—	—	—	36.0	30.2	100.0	100.0
Writers, artists, entertainers, and athletes	1 141	1 019	947	115	59	7	8	—	41.5	34.5	95.1	89.3
Other professional specialty occupations	89	35	35	49	—	5	—	—	42.5	31.5	88.6	90.7
Technical, sales, and administrative support occupations	119 240	72 634	66 274	42 505	4 948	3 189	2 286	1 509	40.6	34.4	85.1	91.6
Technicians and related support occupations	18 654	16 612	15 295	1 738	908	273	477	56	36.7	32.0	94.5	91.7
Health technologists and technicians	386	282	269	72	13	32	269	—	30.8	42.5	94.3	85.6
Licensed practical nurses	98	29	29	49	—	20	—	—	25	46.8	100.0	87.0
Other health technologists and technicians	288	253	240	23	13	12	—	—	31.6	35.4	93.7	82.9
Engineering and science technicians	14 797	13 515	12 408	1 039	782	228	409	56	37.0	33.3	91.4	88.8
Electrical and electronic technicians	1 089	1 041	927	6	90	6	—	—	34.3	32.0	95.3	100.0
Mechanical and mechanical engineering technicians	4 452	4 398	4 351	48	48	—	22	—	39.5	35.0	72.4	70.4
Printing and surveying technicians	4 433	4 207	3 978	202	139	24	134	—	34.4	25	95.8	100.0
Other engineering and science technicians	8 823	7 869	7 152	747	529	192	203	56	39.1	34.5	89.5	86.6
Technicians, except health, engineering, and science	3 471	2 815	2 618	627	113	13	68	—	36.7	29.8	97.5	98.3
Airplane pilots and navigators	171	161	161	10	—	—	16	—	42.7	25	95.7	100.0
Air traffic controllers and broadcast equipment operators	58	40	40	11	—	—	—	—	46.2	30.7	70.0	100.0
Computer programmers	2 052	1 566	1 484	464	50	7	34	—	34.1	29.9	99.0	100.0
Other technicians, except health, engineering, and science	1 190	1 048	933	142	63	—	23	—	40.8	29.6	96.8	92.3

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Primary iron and steel industries															
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over—Con															
Technical, sales, and administrative support occupations—Con															
Sales occupations	11 673	10 411	1 262	10 027	1 226	308	21	152	31	40.7	34.1	95.9	94.5	45.3	15.5
Supervisors and proprietors, sales occupations	724	701	23	645	18	49	5	7	—	46.8	45.4	84.7	91.3	35.0	—
Salaried	687	664	23	608	18	49	5	7	—	46.2	45.4	85.8	91.3	35.8	—
Self-employed	37	37	—	37	—	—	—	—	—	33.8	—	64.9	—	18.9	—
Sales representatives, finance and business services	103	90	13	84	13	—	—	14	—	30.0	—	100.0	100.0	47.8	53.8
Sales representatives, commodities, except retail	403	346	57	306	40	227	16	126	31	33.9	33.6	96.7	96.7	46.9	16.6
Sales workers, retail and personal services	10 401	9 245	1 156	8 085	1 160	226	26	157	—	39.5	35.6	77.2	80.5	19.0	9.3
Cashiers	153	149	4	104	104	6	—	5	—	41.4	30.6	100.0	86.5	22.5	7.7
Other sales occupations, retail and personal services	268	203	65	183	65	20	—	5	—	35.3	30.6	70.4	70.8	23.6	9.2
Sales related occupations	22	22	—	16	—	6	—	—	—	25	—	100.0	—	—	—
Administrative support occupations, including clerical															
Supervisors, administrative support occupations	88 913	45 611	43 302	40 952	39 541	3 732	2 895	1 657	1 422	42.0	34.6	80.0	91.5	10.7	4.5
Computer equipment operators	6 699	5 729	970	5 446	1 216	136	92	200	36	43.7	39.1	88.1	92.0	26.1	11.0
Secretaries, stenographers, and typists	2 727	1 508	1 219	1 342	1 076	31	805	35	74	33.6	30.2	95.0	94.9	13.5	4.9
Stenographers and typists	16 888	378	16 510	15 390	13 681	31	546	8	486	45.2	34.2	84.4	94.5	14.0	4.4
Receptionists	13 856	175	13 681	12 926	11 666	9	550	5	353	45.7	34.2	90.3	94.7	17.1	4.6
Other information clerks	3 032	203	2 829	2 464	2 255	22	255	3	132	44.6	33.2	79.3	93.6	11.3	3.5
File clerks	876	65	811	772	712	11	19	52	52	54.7	31.2	61.5	97.2	1.7	1.7
Other records processing occupations, except financial	466	261	205	221	184	30	21	19	—	43.1	42.4	85.1	82.0	20.3	6.3
Bookkeepers, accounting, and auditing clerks	1 591	869	722	805	627	36	70	36	52	37.6	30.3	83.9	84.5	9.0	3.9
Payroll and timekeeping clerks	3 210	1 591	1 619	1 443	1 451	121	153	69	54	41.8	35.8	84.5	94.8	11.1	7.0
Other financial records processing occupations	6 101	1 773	4 328	1 671	4 011	65	229	39	158	42.7	37.2	95.0	92.5	20.9	5.9
Telephone operators	3 454	2 090	1 364	1 317	1 992	34	70	18	71	42.2	33.3	92.9	80.5	10.6	2.4
Mail and message distributing occupations	2 222	1 023	1 199	958	1 133	41	59	47	29	42.2	35.9	94.5	93.4	15.2	3.4
Production coordinators and expeditors	657	151	506	118	490	33	16	7	—	46.0	44.3	68.9	77.7	4.0	—
Traffic, shipping, and receiving clerks	7 785	705	272	655	257	109	15	33	—	37.8	32.1	68.9	84.9	37.1	4.8
Stock and inventory clerks	9 590	7 659	1 931	6 892	1 655	492	224	190	68	43.0	34.3	85.1	87.6	9.2	4.1
Other material recording, scheduling, and distributing clerks	8 281	7 482	799	6 683	694	1 077	97	428	42	39.8	36.2	63.4	79.3	3.2	3.3
Adjusters and investigators	5 535	5 535	1 003	4 897	888	530	164	192	16	43.1	37.6	70.4	86.4	5.3	9.8
Data-entry keyers	3 059	2 645	414	2 290	331	284	75	91	17	43.9	36.1	65.7	70.8	2.0	5.3
Other administrative support occupations	737	471	266	453	244	12	319	10	92	42.8	36.1	98.9	97.0	29.3	15.0
Service occupations	3 009	218	2 791	158	2 899	60	18	236	163	37.5	32.3	83.9	94.1	5.5	1.3
Private household occupations	6 104	5 647	5 046	5 578	5 046	414	523	—	—	42.2	36.3	86.0	89.6	10.3	4.0
Protective service occupations	25 276	21 894	3 382	17 855	2 297	3 476	985	1 065	170	43.8	41.0	57.6	58.9	3.2	0.8
Guards	6 444	6 076	368	5 387	317	600	45	134	25	48.6	39.4	66.1	70.7	4.7	1.4
Other protective service occupations	5 842	5 481	361	4 846	310	556	45	129	25	49.1	39.0	64.7	70.1	4.4	1.4
Food preparation and service occupation	602	595	7	541	7	44	—	5	—	46.0	50.0	79.3	100.0	7.9	0.1
Health service occupations	18 832	15 818	3 014	12 468	1 980	2 876	940	931	145	41.4	41.3	54.4	57.4	2.5	0.7
Cleaning and building service occupations, except household	697	190	507	162	343	28	164	9	—	38.8	45.7	63.2	55.0	6.8	—
Personal service occupations	240	122	118	116	99	6	—	—	—	38.4	42.8	76.2	89.8	4.9	—
Farming, forestry, and fishing occupations	17 669	15 329	2 340	12 045	1 507	2 815	739	902	137	41.4	40.3	54.0	56.8	2.2	0.9
Precision production, craft, and repair occupations	226	177	49	145	31	27	18	20	8	42.7	30.9	59.3	34.7	2.8	—
Mechanics and repairers	405	365	40	281	22	66	18	31	—	33.4	30.2	60.5	80.0	3.6	—
Supervisors, mechanics and repairers	213 322	209 404	3 918	185 648	3 038	18 563	765	9 517	214	41.4	33.3	71.4	70.5	6.1	6.3
Automobile mechanics, including body	63 579	62 674	905	56 249	661	4 939	238	2 847	32	40.0	30.8	69.0	69.4	2.3	3.4
Industrial machinery repairers	1 901	1 899	2	1 780	1	104	—	61	—	43.2	35.0	82.4	100.0	15.8	—
Electronic repairers, communications and industrial equipment	12 936	12 788	148	11 610	95	1303	53	117	—	47.1	35.6	62.7	47.1	1.1	—
Heating, air conditioning, and refrigeration mechanics	2 042	2 026	16	1 887	8	113	8	493	4	39.1	32.4	65.2	64.9	1.9	—
Other mechanics and repairers	712	706	6	644	6	56	—	57	—	40.1	30.0	85.0	100.0	2.7	—
Construction trades	44 483	43 767	716	39 028	533	3 632	177	2 107	28	38.1	40.0	68.8	69.8	4.5	—
Supervisors, construction occupations	40 811	40 248	563	35 945	415	3 370	132	1 852	33	40.7	31.0	72.8	78.7	2.7	4.6
Carpenters	2 141	2 136	5	2 048	5	56	—	59	—	25	—	79.6	100.0	15.0	—
Electricians	2 687	2 651	36	2 493	23	139	13	80	—	46.4	34.5	63.1	86.1	1.3	—
Painters, construction and maintenance	17 255	17 081	174	15 880	130	852	33	674	11	47.5	30.1	81.3	95.4	2.7	4.6
Plumbers, pipefitters, and steamfitters	1 062	982	80	758	45	155	30	108	5	33.9	32.4	54.9	57.5	0.5	5.0
Other construction trades	7 596	7 510	86	6 619	79	684	49	354	7	40.8	35.0	71.9	77.9	1.8	—
	10 070	9 888	182	8 147	133	1 484	49	577	17	41.0	30.0	61.7	70.3	1.3	0.6

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Primary iron and steel industries												
United States												
Both sexes	Race				Black		Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Male	Female	Male	Female	Male	Female	Male	Female
	Male	Female	Male	Female								
Employed persons 16 years and over—Con.												
Precision production, craft, and repair occupations—Con.												
Extrusive occupations	654	16	509	12	77	4	58	—	35.2	27.0	53.4	31.3
Precision production occupations	108 278	2 434	92 945	1 950	10 177	391	4 760	149	42.5	35.6	72.4	69.3
Supervisors, production occupations	64 712	1 078	57 111	1 078	4 962	85	2 428	85	43.8	37.2	76.9	75.8
Precision metalworking occupations	27 939	27 222	24 035	562	2 428	139	3 119	35	33.4	33.4	73.7	66.0
Tool and die makers	3 373	3 242	3 016	108	186	23	55	15	42.6	39.5	71.0	67.2
Mechanics	17 472	17 137	14 891	227	1 729	9	976	9	37.8	31.0	75.7	69.9
Sheet metal workers	1 479	1 448	1 249	16	158	15	83	—	36.0	25.9	65.5	93.5
Other precision metal workers	5 615	5 395	4 879	211	355	9	205	11	41.6	40.8	71.3	55.5
Precision textile, apparel, and furnishings machine workers	119	103	79	9	24	7	—	—	33.8	56.1	38.8	—
Precision food production occupations	211	193	18	12	53	6	26	—	38.0	47.5	28.5	—
Precision inspectors, testers, and related workers	1 354	1 223	1 117	92	70	26	48	—	42.6	34.5	68.4	78.6
Plant and system operators	4 042	3 978	3 347	57	560	7	126	—	48.0	39.1	64.4	81.3
Other precision production occupations	9 901	9 682	7 131	140	2 080	55	813	29	38.1	31.1	44.6	41.6
Operators, fabricators, and laborers	440 776	431 338	333 476	20 680	79 171	7 526	33 997	1 943	37.1	33.9	57.3	60.9
Machine operators, assemblers, and inspectors	290 073	270 158	209 849	14 713	47 526	4 262	22 351	1 511	37.2	34.9	57.5	58.2
Machine operators and tenders, except precision	210 313	191 908	151 400	8 891	36 912	2 932	16 741	1 014	37.4	34.6	56.2	57.9
Metalworking and plastic working machine operators	54 152	50 928	40 280	2 368	8 177	719	3 914	253	37.6	34.9	57.4	55.8
Fabricating machine operators, n.e.c.	2 248	2 074	1 678	154	247	8	229	20	34.5	33.6	59.4	56.9
Metal and plastic processing and woodworking machine operators	21 966	20 855	16 210	871	3 435	202	1 764	57	38.5	33.6	53.9	57.2
Textile machine operators	518	361	291	150	70	7	31	8	37.8	33.9	45.7	48.7
Textile sewing machine operators	431	346	302	68	43	10	14	7	39.4	41.3	61.0	44.7
Textile machine operators	247	172	139	37	33	38	—	—	35.5	34.6	—	—
Laundry and dry cleaning machine operators	45	45	38	—	7	—	—	—	34.7	—	53.3	—
Packaging and filling machine operators	358	293	227	52	39	13	33	15	34.1	40.0	50.2	53.8
Furnace, kiln, and oven operators, except food	27 484	26 855	20 426	441	5 519	169	1 625	13	38.7	33.0	55.4	69.6
Other specified machine operators	22 315	21 090	15 937	873	4 161	331	1 785	55	36.9	35.0	53.9	63.6
Miscellaneous and not specified machine operators	80 549	74 889	55 872	3 877	14 981	1 435	7 338	586	36.7	34.7	56.8	56.7
Fabricators, assemblers, and hand working occupations	54 949	50 758	41 191	3 218	7 605	680	4 605	352	34.9	33.7	58.3	55.1
Welders and cutters	41 391	40 224	32 610	892	5 560	236	3 508	64	34.9	32.2	58.4	60.5
Solders and brazers	12 474	9 536	7 133	38	1 916	—	89	4	30.6	29.4	16.7	17.7
Assemblers	12 422	9 536	7 133	38	1 916	—	89	4	30.6	29.4	16.7	17.7
Hand working occupations	962	872	706	70	129	15	107	8	35.7	34.8	58.2	53.4
Production inspectors, testers, samplers, and weighers	24 811	21 492	17 894	2 604	3 009	650	1 005	145	41.3	38.3	58.7	34.4
Graders and sorters, except agricultural	601	453	341	116	100	32	69	10	36.7	41.1	44.8	56.1
Other production inspectors, testers, samplers, and weighers	24 210	21 039	17 553	2 488	2 909	618	936	135	41.4	38.1	68.6	63.5
Transportation and material moving occupations	80 672	78 084	60 909	1 680	14 731	809	4 968	140	40.4	32.1	54.2	70.3
Transportation occupations	19 043	18 658	14 801	222	3 330	143	1 260	23	41.4	32.5	52.9	60.5
Motor vehicle operators	13 579	13 304	10 495	167	2 572	135	941	23	40.6	31.1	50.2	60.8
Truck drivers	92	57	35	—	25	30	—	—	40.7	32.7	49.8	55.6
Driver-sales workers	570	551	398	9	142	3	57	7	38.7	25	63.2	80.0
Other motor vehicle operators	4 802	4 746	3 876	46	758	8	319	—	44.8	46.2	58.6	100.0
Rail and water transportation occupations	61 629	59 426	46 108	1 458	11 401	666	3 708	117	40.1	32.1	61.0	58.9
Material moving equipment operators	37 376	36 111	28 635	693	6 796	415	2 472	70	41.2	30.6	80.6	73.3
Supervisors, material moving equipment operators	37 376	36 111	28 635	693	6 796	415	2 472	70	41.2	30.6	80.6	73.3
Crane, hoist and winch operators	954	949	698	5	226	5	39	—	40.5	30.0	47.6	100.0
Excavating, grading, and dozer machine operators	22 521	21 505	16 449	745	4 344	251	1 187	47	37.8	31.0	53.2	72.0
Other material moving equipment operators	90 031	83 096	62 718	4 287	16 914	2 455	6 678	312	33.8	32.3	59.5	65.1
Handlers, equipment cleaners, helpers, and laborers	116	116	82	—	34	—	—	—	44.3	—	72.4	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	11 983	11 515	9 054	255	2 041	197	806	37	34.6	29.8	61.0	79.1
Helpers, craft and production	1 184	1 135	768	33	328	11	101	—	30.7	32.8	63.9	81.6
Construction laborers	12 168	11 649	9 000	315	2 233	198	800	5	36.5	31.4	61.1	75.7
Freight, stock, and material handlers	1 604	1 394	1 074	148	258	56	132	4	34.7	31.1	58.5	48.1
Garage and service station occupations, and equipment cleaners	3 226	2 217	1 059	184	357	184	163	90	37.0	34.9	57.6	49.4
Hand packers and packagers	59 750	55 070	40 976	2 754	11 663	1 809	4 676	176	33.2	32.4	58.9	66.5
Laborers, except construction	—	—	—	—	—	—	—	—	—	—	—	—
Laborers	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

Primary nonferrous industries																	
Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self employed			
Total		White		Black		Male		Female		Male		Female		Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over	421 081	341 176	79 905	295 968	30 440	7 706	26 314	4 374	38.1	35.9	69.0	72.1	10.6	5.0	0.4	0.3	
Managerial and professional specialty occupations	47 052	40 845	6 207	38 846	846	209	962	153	42.4	34.9	94.5	93.8	53.2	26.5	1.4	0.9	
Executive, administrative, and managerial occupations	31 611	27 190	4 421	26 048	524	121	613	111	43.7	35.5	93.0	93.6	48.4	21.6	1.8	1.3	
Officials and administrators, public administration	2	2	—	—	—	—	—	—	25	—	100.0	100.0	100.0	—	—	—	
Financial managers, advertising, and public relations	1 487	1 308	179	1 169	21	—	54	11	41.1	39.0	98.3	97.2	72.9	31.3	0.5	—	
Administrators, education and related fields	2 827	2 615	212	2 581	12	—	23	9	44.7	36.4	97.2	89.2	60.0	17.9	0.5	—	
Managers, medicine and health	31	16	15	16	—	—	—	—	36.1	25	100.0	66.7	100.0	—	—	—	
Other specified managers	1 558	1 197	361	1 159	31	—	13	25	43.1	35.2	96.2	97.2	58.6	21.3	—	1.9	
Managers and administrators, n.e.c.	17 539	16 027	1 512	15 486	185	52	326	33	45.5	39.1	90.9	93.1	44.3	14.7	2.7	2.8	
Salaries	17 053	15 593	1 460	15 061	176	52	326	33	45.4	38.9	91.0	92.8	45.0	14.7	—	82.7	
Self-employed	486	434	52	425	9	—	—	—	49.3	41.9	85.5	100.0	22.1	17.3	100.0	—	
Management related occupations	8 167	6 025	2 142	5 555	275	63	197	33	38.5	33.4	94.9	93.7	51.3	26.1	0.4	0.3	
Accountants and auditors	3 952	2 869	1 083	2 694	167	35	94	9	36.0	30.8	96.6	96.9	37.5	38.1	0.4	—	
Personnel, training, and labor relations specialists	1 837	1 378	459	1 144	167	35	51	24	39.8	36.1	83.4	91.5	32.9	21.4	—	—	
Buyers and purchasing agents	1 803	1 344	459	1 298	15	—	46	—	41.3	37.1	96.4	89.5	33.0	8.3	0.6	—	
Inspectors and compliance officers	82	70	12	70	—	—	6	—	42.4	36.4	87.1	91.7	8.6	—	—	—	
Other management related occupations	493	364	129	349	8	—	—	—	41.7	36.6	96.7	95.3	67.9	8.5	2.2	5.4	
Professional specialty occupations	15 441	13 455	1 786	12 798	322	88	349	42	39.0	33.7	97.7	94.3	60.9	38.6	0.6	—	
Engineers, architects, and surveyors	10 846	10 333	513	9 780	191	26	238	6	39.3	28.1	98.0	91.8	62.3	43.3	0.6	—	
Architects	20	20	—	—	8	—	—	—	28.3	—	100.0	—	60.0	—	—	—	
Engineers	10 794	10 281	513	9 754	183	26	209	6	39.4	28.1	98.0	91.8	62.3	43.3	0.6	—	
Civil engineers	1 022	1 195	7	1 70	11	—	—	—	41.4	30.0	96.9	100.0	74.9	—	—	—	
Electrical and electronic engineers	2 022	1 910	24	941	58	—	14	—	34.7	25	97.0	100.0	67.3	70.8	0.2	—	
Industrial engineers	2 796	2 566	230	2 510	21	6	60	—	39.7	30.3	97.8	94.3	49.3	21.3	0.2	—	
Mechanical engineers	1 657	1 625	32	1 578	21	—	13	—	39.3	25	98.1	98.1	64.6	34.4	0.3	—	
Other engineers	5 105	4 885	220	4 555	86	20	116	6	40.2	27.2	97.8	90.0	67.3	65.9	1.0	—	
Surveyors and mapping scientists	32	32	—	—	—	—	29	—	25	—	100.0	—	—	—	—	—	
Computer systems analysts and scientists	560	470	90	443	14	—	—	—	37.1	29.9	98.9	100.0	62.3	44.4	—	—	
Operations and systems researchers and analysts	421	365	56	365	43	13	7	—	41.5	33.4	94.8	100.0	31.5	32.1	—	—	
Mathematical scientists	94	79	15	62	8	—	—	—	45.5	44.2	100.0	100.0	39.2	53.3	—	—	
Natural scientists	1 356	1 162	194	1 069	33	—	44	6	37.3	29.9	99.1	100.0	71.3	71.1	0.5	—	
Chemists, except biochemists	1 356	984	172	899	33	—	36	6	37.7	30.2	98.9	100.0	69.0	70.9	0.6	—	
Other natural scientists	200	178	22	170	—	—	8	—	35.3	25.0	100.0	100.0	83.7	72.7	—	—	
Health diagnosing occupations	35	35	—	23	5	—	7	—	50.0	—	100.0	—	80.0	—	—	—	
Health assessment and treating occupations	530	19	511	13	6	17	—	23	47.1	47.2	100.0	95.3	36.8	15.3	—	—	
Registered nurses	502	12	490	6	6	17	—	23	50.0	47.5	100.0	96.3	47.5	14.5	—	—	
Other health assessment and treating occupations	28	7	21	7	—	—	—	—	40.0	32.0	100.0	71.4	100.0	33.3	—	—	
Teachers, except postsecondary	95	64	31	47	12	17	5	—	36.6	31.7	73.4	74.2	17.2	19.4	—	—	
Social scientists and urban planners	336	274	62	259	—	—	—	—	46.9	45.6	96.7	100.0	82.5	37.1	—	—	
Social and recreation workers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Lawyers and judges	146	130	16	117	13	—	—	—	39.6	33.0	95.4	100.0	95.4	—	—	—	
Writers, artists, entertainers, and athletes	933	688	245	598	26	15	43	7	36.1	32.2	93.9	91.8	30.1	47.8	1.7	—	
Other professional specialty occupations	89	36	53	22	14	—	—	—	33.2	36.1	100.0	86.8	—	43.4	—	—	
Technical, sales, and administrative support occupations	61 718	31 746	29 972	28 928	1 842	1 487	1 427	995	38.7	34.7	84.7	90.5	20.4	5.5	0.8	0.3	
Technicians and related support occupations	10 117	8 480	1 637	7 671	476	89	309	95	35.1	32.1	92.5	84.7	20.6	17.6	0.5	—	
Health technologists and technicians	136	119	17	115	—	—	12	—	43.0	43.5	84.9	100.0	61.3	—	—	—	
Licensed practical nurses	16	7	9	7	—	—	—	—	60.0	48.6	100.0	100.0	100.0	—	—	—	
Other health technologists and technicians	120	112	8	108	—	—	12	—	41.7	40.0	83.9	100.0	58.9	—	—	—	
Engineering and science technicians	7 602	6 529	1 073	5 874	400	66	266	60	35.3	33.3	92.7	80.4	17.0	10.9	0.1	—	
Electrical and electronic technicians	634	540	29	540	12	—	50	—	34.9	29.6	96.4	75.9	17.9	24.1	—	—	
Industrial and mechanical engineering technicians	146	138	8	118	14	—	8	—	40.7	25	92.8	100.0	43.5	—	—	—	
Drafting and surveying technicians	1 894	1 734	160	1 625	43	7	31	6	33.8	28.0	94.3	96.3	9.3	18.1	—	—	
Other engineering and science technicians	4 928	4 052	876	3 591	281	59	177	54	36.1	34.2	91.5	77.5	19.3	9.2	0.1	—	
Technicians, except health, engineering, and science	2 379	1 832	547	1 682	76	23	31	35	34.4	30.6	92.3	92.7	30.6	31.3	2.1	—	
Airplane pilots and navigators	36	36	—	36	—	—	—	—	40.0	—	83.3	—	47.2	—	—	—	
Air traffic controllers and broadcast equipment operators	1 030	723	307	413	—	—	—	—	33.1	40.0	100.0	100.0	38.5	—	1.0	—	
Computer programmers	1 177	13	4	13	37	14	12	18	32.1	29.3	98.9	94.8	45.6	36.8	—	—	
Other technicians, except health, engineering, and science	1 296	1 060	236	987	39	9	19	17	38.3	32.8	88.0	89.8	19.7	24.6	2.9	—	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																
Primary nonferrous industries																
Race					Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
Total		White		Black												
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations																
7 349	6 199	1 150	6 038	1 067	63	46	103	32	42.3	32.8	94.0	89.9	41.3	13.0	2.6	2.1
497	439	58	404	58	24	—	29	—	41.9	44.1	93.1	100.0	31.7	10.3	7.7	—
463	405	58	376	58	24	—	9	—	51.2	44.1	93.1	100.0	32.8	10.3	—	—
34	34	—	28	—	—	—	11	—	47.3	—	80.6	—	17.6	—	100.0	—
30	30	—	24	—	—	—	—	—	47.3	—	80.6	—	53.3	—	—	—
6 521	5 636	885	5 530	839	39	33	68	27	42.3	32.2	94.6	91.9	42.4	13.4	2.2	1.8
237	88	149	74	136	—	—	15	—	33.3	32.5	78.4	70.5	12.5	4.7	—	—
168	24	44	14	44	—	—	15	—	23.8	49.5	27.5	63.6	37.5	4.7	5.4	—
169	64	105	60	92	—	13	—	—	43.8	29.7	93.8	73.3	17.2	6.7	—	—
64	6	58	6	34	—	—	5	—	25—	35.0	100.0	100.0	—	29.3	7.6	—
Administrative support occupations, including clerical																
44 252	17 067	27 185	15 219	25 307	1 303	1 352	1 015	868	39.1	35.0	77.3	90.9	12.7	4.5	0.3	0.2
3 371	2 622	749	2 385	717	168	28	131	37	40.6	40.9	87.0	85.2	26.1	11.3	0.2	—
583	736	847	677	726	26	26	29	18	32.9	30.0	88.0	90.2	17.9	4.1	—	—
11 849	154	11 695	134	11 088	20	418	203	270	44.6	34.8	88.3	94.7	7.8	4.4	5.2	0.2
10 621	95	10 526	95	10 065	—	318	84.2	203	51.5	35.0	84.2	95.3	12.6	4.7	8.4	0.2
1 228	59	1 169	39	1 043	20	93	—	67	32.7	33.1	94.9	89.3	—	2.1	—	—
609	7	602	7	557	—	34	—	23	30.0	34.8	100.0	85.0	—	1.0	—	—
179	109	70	93	64	—	—	32	—	30.3	32.5	89.9	87.1	12.8	—	—	—
935	543	392	490	336	25	38	42	24	35.7	34.6	86.4	66.8	14.2	3.1	—	—
1 191	392	799	353	714	22	52	30	62	43.9	34.2	73.0	89.1	12.0	6.8	—	—
Other records processing occupations, except financial																
3 948	636	3 112	587	3 106	41	122	14	100	43.9	36.6	91.2	94.8	25.3	5.6	—	0.5
1 067	246	821	9	793	56	9	19	25	40.7	35.4	94.3	93.4	5.3	5.4	—	—
758	178	580	174	539	31	25	—	—	40.8	34.5	90.4	89.1	37.1	4.3	—	0.3
406	40	366	32	330	8	4	16	—	42.1	43.1	72.5	86.3	—	—	—	—
420	124	296	112	124	66	12	18	—	35.6	31.8	71.9	74.2	1.9	—	—	—
2 887	2 045	1 842	1 890	788	108	26	60	73	38.9	35.6	85.2	92.3	15.5	2.9	—	—
5 117	4 322	795	3 711	733	415	39	362	43	36.1	34.7	63.1	70.6	3.4	2.3	—	—
3 014	2 200	814	2 008	717	140	34	100	34	42.0	33.8	72.5	81.0	6.7	4.7	—	1.0
982	881	101	743	64	113	33	86	—	41.6	37.7	68.9	80.2	1.1	5.0	—	—
495	301	189	8	285	5	16	8	6	37.4	36.9	99.5	96.3	26.3	12.0	17.5	0.6
1 286	68	1 218	56	1 093	9	105	10	35	39.8	32.2	75.0	90.4	10.3	2.1	0.5	0.3
4 131	1 374	2 757	1 255	2 525	81	185	78	102	43.0	37.2	82.1	86.1	20.0	3.9	0.5	0.3
Service occupations																
11 484	10 210	1 274	8 741	957	1 110	261	807	91	42.8	41.3	53.6	45.4	2.2	1.6	—	—
Private household occupations																
2 833	2 662	171	2 429	144	191	—	89	—	50.6	31.9	45.8	66.1	2.9	—	—	—
2 647	2 496	171	2 263	144	191	27	89	18	50.6	31.9	45.0	66.1	2.6	—	—	—
166	166	—	166	—	—	—	—	—	50.7	—	77.7	—	8.4	—	—	—
Other protective service occupations																
8 651	7 548	1 103	6 312	813	919	234	718	73	39.8	42.8	49.3	42.2	1.9	1.8	—	—
243	107	136	78	125	21	11	36	13	42.0	43.5	35.5	34.6	—	5.9	—	—
90	21	69	21	43	—	26	—	—	40.8	46.9	100.0	68.1	—	—	—	—
Health service occupations																
8 181	7 340	841	6 155	588	885	197	668	47	39.9	42.3	49.1	40.1	1.7	1.1	—	—
137	80	57	58	57	13	—	14	13	32.7	42.0	76.3	59.6	15.0	5.3	—	—
Cleaning and building service occupations, except household																
Personal service occupations																
Farming, forestry, and fishing occupations																
195	168	27	161	21	7	6	8	—	33.4	38.2	66.1	59.3	—	—	—	—
Precision production, craft, and repair occupations																
90 221	85 901	4 320	77 984	3 629	5 204	395	5 137	369	40.9	37.7	72.0	65.0	5.5	5.2	0.3	0.4
21 793	21 148	645	19 489	529	1 093	83	970	50	40.6	34.2	70.3	69.8	2.2	3.7	0.1	—
572	556	16	536	16	14	—	6	—	46.1	41.0	83.3	100.0	10.1	—	—	—
856	843	13	750	856	49	—	58	—	42.1	29.1	72.0	46.2	2.3	—	—	—
8 083	7 890	193	7 409	159	330	21	337	7	40.1	31.6	67.9	90.2	1.7	6.2	0.1	—
Industrial machinery repairers																
Electronic repairers, communications and industrial equipment																
349	297	52	273	52	18	—	39	6	39.0	30.9	89.6	61.5	13.5	11.5	—	—
176	174	2	174	2	—	—	—	—	38.7	30.0	69.0	100.0	—	—	—	—
11 757	11 388	369	10 347	291	682	58	524	31	40.6	37.7	70.8	59.6	1.7	1.6	0.1	—
Other mechanics and repairers																
Construction trades																
13 570	13 236	334	12 377	292	620	35	642	14	40.4	35.3	76.8	77.8	2.7	6.9	0.7	—
569	562	7	555	7	—	—	24	—	46.2	36.2	81.3	—	12.8	—	0.9	—
1 467	1 440	27	1 337	14	63	13	71	—	40.5	36.2	59.0	74.1	1.7	—	3.8	—
6 939	6 758	181	6 518	165	157	16	224	—	39.7	33.8	86.7	87.3	2.6	12.7	0.3	—
551	520	31	431	25	78	6	34	—	35.7	40.0	62.5	19.4	1.5	—	1.3	—
2 264	2 233	57	2 050	24	121	34	130	14	42.5	36.3	72.4	61.3	4.2	—	0.4	—
1 780	1 723	57	1 486	57	201	—	159	—	39.8	35.7	61.6	100.0	2.4	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Primary nonferrous industries							
	Employed persons 16 years and over—Con.																	
	Race																	
	Total		White		Black		Spanish origin¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self employed			
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		
Precision production, craft, and repair occupations—Con																		
Extraction occupations	268	239	195	29	14	—	61	—	37.5	30.3	75.7	62.1	10.5	—	—	—		
Precision production occupations	54 590	31 278	45 923	2 779	3 477	277	3 464	305	41.2	36.7	71.4	62.7	17.6	5.4	0.4	0.5		
Supervisors, production occupations	31 692	16 416	27 360	1 383	1 923	111	1 802	143	42.2	38.4	73.9	74.3	11.0	7.0	0.3	0.6		
Precision metalworking occupations	16 027	15 419	13 618	1 068	903	47	916	79	39.6	36.2	72.6	73.2	2.0	1.6	0.3	—		
Tool and die makers	392	1 149	134	124	161	12	180	31	40.5	37.0	74.3	53.1	2.2	7.7	0.2	—		
Machinists	8 577	8 294	7 231	205	664	30	547	28	38.7	35.3	72.4	46.1	2.0	—	0.3	—		
Sheet metal workers	1 849	817	695	32	47	—	108	—	42.0	35.7	74.4	55.3	1.8	—	1.5	—		
Other precision metal workers	1 309	1 159	1 121	145	31	5	81	20	42.3	31.8	70.0	55.3	2.4	—	0.3	—		
Precision textile, apparel, and furnishings machine workers	43	39	34	4	—	—	8	—	42.1	35.0	82.1	100.0	—	—	17.9	—		
Precision food production occupations	104	104	67	4	25	—	31	—	41.7	39.8	46.6	49.1	8.7	—	—	—		
Precision inspectors, testers, and related workers	1 234	782	720	393	24	37	104	44	36.9	33.6	78.7	83.0	10.8	1.1	0.3	1.5		
Plant and system operators	1 491	1 444	1 324	26	59	21	93	—	44.7	27.8	78.7	83.0	14.4	4.3	0.3	—		
Other precision production occupations	3 999	3 414	2 570	467	543	61	510	39	36.0	40.3	42.6	45.1	1.3	2.6	0.8	—		
Operators, fabricators, and laborers																		
Machine operators, assemblers, and inspectors	210 411	172 306	141 308	30 955	21 431	5 348	17 973	2 766	34.8	36.5	59.5	55.8	1.7	1.2	0.2	0.1		
Machine operators and tenders, except precision	154 088	122 117	100 484	26 226	14 457	4 279	13 275	2 307	34.7	37.0	59.6	55.6	1.6	1.2	0.2	0.1		
Metalworking and plastic working machine operators	118 947	100 091	82 209	15 296	12 138	2 722	10 900	1 306	34.8	36.6	58.4	54.1	1.4	1.2	0.2	0.2		
Fabricating machine operators, n.e.c.	22 571	18 533	15 664	3 495	1 750	443	1 846	223	35.0	38.1	59.2	54.6	1.5	0.8	0.2	—		
Metal and plastic processing and woodworking machine operators	1 867	1 395	1 187	415	123	32	149	31	35.0	39.8	57.6	40.9	1.0	—	—	—		
Printing machine operators	13 408	11 994	9 968	1 212	1 340	181	1 253	33	33.6	38.9	54.4	54.7	2.0	1.9	0.1	1.2		
Textile machine operators	496	353	298	120	50	18	17	—	34.8	32.7	62.3	64.3	2.5	4.2	—	—		
Textile sewing machine operators	405	234	171	144	9	19	7	—	31.3	32.7	55.1	62.6	—	—	—	—		
Laundry and dry cleaning machine operators	306	125	147	152	16	22	17	—	42.2	42.2	70.4	28.7	3.2	—	—	—		
Packaging and filling machine operators	26	19	12	7	—	—	7	—	25.0	25.0	36.8	100.0	—	—	—	—		
Furnace, kiln, and oven operators, except food	231	170	140	61	30	—	—	—	33.6	26.4	50.0	68.9	1.2	—	—	—		
Other specified machine operators	15 809	15 299	12 504	359	1 139	126	1 439	57	37.0	36.3	59.7	51.6	1.9	1.0	0.6	0.8		
Miscellaneous and not specified machine operators	12 888	11 065	9 381	1 567	1 339	216	1 040	53	34.4	35.0	57.9	57.9	1.8	1.0	0.1	0.1		
Fabricators, assemblers, and hand working occupations	50 940	40 904	32 819	7 761	5 480	1 665	4 935	909	34.6	36.1	57.2	54.0	1.2	1.3	0.1	0.1		
Welders and cutters	22 312	14 282	11 402	6 470	1 620	1 085	1 791	712	33.7	35.6	61.6	58.3	2.0	1.1	0.6	—		
Solderers and brazers	8 190	7 550	6 514	519	632	82	777	42	35.7	35.1	62.2	48.8	1.9	1.3	0.7	—		
Assemblers	392	116	276	95	20	6	92	4	37.7	34.4	68.1	50.4	—	—	—	—		
Hand working occupations	13 254	6 287	4 725	5 549	943	985	972	646	31.5	35.8	60.3	59.4	2.2	1.1	0.5	—		
Production inspectors, testers, samplers, and weighers	476	329	147	127	25	12	38	17	34.3	32.9	69.9	63.3	4.0	—	—	—		
Graders and sorters, except agricultural	12 829	7 744	6 673	4 460	699	472	584	289	36.6	40.6	72.1	56.9	3.3	1.7	—	—		
Other production inspectors, testers, samplers, and weighers	214	123	78	84	34	7	9	—	30.1	46.0	62.6	30.8	—	—	—	—		
Transportation and material moving occupations	12 615	7 621	6 595	4 376	665	465	575	289	36.8	40.5	72.2	57.4	3.4	1.7	—	—		
Transportation occupations	25 055	23 837	19 448	978	3 394	186	1 978	78	38.3	31.8	56.7	67.9	1.9	0.6	0.2	—		
Motor vehicle operators	6 915	6 739	5 429	148	858	16	547	23	40.0	32.9	57.0	63.6	1.9	4.0	0.7	—		
Truck drivers	6 430	6 271	5 228	131	833	16	451	23	40.2	31.6	56.2	70.4	1.8	4.4	0.8	—		
Driver-sales workers	6 200	6 040	5 068	120	796	16	430	15	40.0	31.4	56.3	66.4	1.9	5.0	0.8	—		
Other motor vehicle operators	35	31	23	4	—	—	8	—	25.0	50.0	67.7	100.0	—	—	6.5	—		
Rail and water transportation occupations	195	180	137	7	37	—	13	8	49.7	30.8	51.1	100.0	—	—	—	—		
Material moving equipment operators	485	468	401	17	25	—	96	—	37.1	30.0	68.8	—	3.6	—	—	—		
Supervisors, material moving equipment operators	18 140	17 098	13 819	830	2 536	170	1 431	55	37.6	31.7	56.6	68.6	1.9	—	—	—		
Crane, hoist, and winch operators	97	95	80	2	15	—	6	—	44.9	30.0	91.6	100.0	30.5	—	—	—		
Excavating, grading, and dozer machine operators	6 391	6 157	5 179	202	789	27	438	4	39.7	31.8	58.0	77.8	1.2	—	—	—		
Other material moving equipment operators	262	256	228	19	6	—	10	—	38.0	40.0	68.4	100.0	—	—	—	—		
Handlers, equipment cleaners, helpers, and laborers	11 390	10 590	8 332	626	1 713	137	977	51	36.2	31.6	55.2	65.6	2.1	—	—	—		
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	31 268	26 352	21 376	3 751	3 580	883	2 720	381	32.5	34.7	61.6	54.2	1.9	1.5	0.2	—		
Helpers, craft and production	26	26	16	—	—	—	—	—	38.8	—	88.5	—	15.4	—	—	—		
Construction laborers	3 577	3 308	2 720	197	448	58	283	12	33.3	33.5	66.1	66.5	1.0	—	—	—		
Freight, stock, and material handlers	424	422	317	2	92	—	34	—	30.7	25.0	63.5	100.0	—	—	—	—		
Garage and service station occupations, and equipment cleaners	9 816	8 601	7 136	968	1 044	213	778	51	31.8	34.1	65.0	55.2	1.6	0.3	0.2	—		
Hand packers and packagers	609	438	385	118	42	—	49	—	33.6	33.6	55.9	62.0	1.4	—	—	—		
Laborers, except construction	4 467	2 629	2 163	1 427	270	53	320	164	36.0	39.3	53.4	47.9	3.5	1.4	0.2	—		
Laborers, except construction	12 349	10 928	8 639	1 039	1 684	278	1 256	154	32.3	32.4	59.8	58.3	2.0	3.0	0.2	—		

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Fabricated metal industries																
	Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
	Both sexes	Male	Female	Male	Female	Male											Female
Employed persons 16 years and over	1 424 362	1 107 481	316 881	973 766	276 233	82 935	27 353	81 138	20 727	36.7	36.6	67.9	68.9	10.0	4.0	1.2	0.5
Managerial and professional specialty occupations	174 536	153 068	21 468	147 515	20 162	2 165	703	3 057	635	42.6	37.1	92.8	94.0	44.2	21.7	3.1	1.8
Executive, administrative, and managerial occupations	130 132	112 376	17 756	109 392	16 375	1 439	532	2 405	510	43.4	37.6	91.2	93.8	40.7	18.3	3.8	1.9
Officials and administrators, public administration	7 779	3 885	3 894	3 780	852	45	25	64	24	39.8	38.3	98.2	100.0	—	40.0	—	—
Financial managers	4 779	3 885	894	3 780	898	52	28	106	17	43.3	34.3	96.9	96.6	48.9	20.4	0.7	1.3
Managers, marketing, advertising, and public relations	12 200	11 257	943	11 133	898	52	28	106	17	43.3	34.3	96.9	96.6	48.9	20.4	0.7	1.3
Administrators, education and related fields	98	93	5	93	3	—	—	—	—	48.4	33.3	84.9	60.0	57.0	—	—	—
Managers, medicine and health	6 274	5 214	1 060	5 036	1 007	127	17	132	54	42.0	39.8	94.5	96.3	50.7	15.9	2.0	0.7
Other specified managers	79 030	71 952	7 078	70 052	6 748	778	156	1 476	208	44.6	41.1	89.0	92.1	36.0	13.5	5.4	4.0
Managers and administrators, n.e.c.	74 724	68 010	6 714	66 199	6 393	755	147	1 523	201	44.6	40.8	89.7	92.1	37.3	13.2	—	—
Self-employed	4 306	3 942	364	3 853	355	23	9	153	7	44.9	46.1	76.9	85.2	14.9	18.7	98.4	77.7
Management related occupations	27 764	20 175	7 589	19 298	7 060	457	306	427	207	39.3	34.2	93.7	94.9	44.0	22.6	0.9	0.4
Accountants and auditors	12 102	8 428	3 674	7 994	3 336	186	159	149	84	36.1	32.7	98.7	96.7	62.0	31.8	0.5	0.4
Personnel, training, and labor relations specialists	4 684	3 400	1 284	3 142	1 214	172	64	120	48	39.9	35.9	80.7	90.6	24.3	19.2	1.2	—
Buyers and purchasing agents	8 655	6 237	2 418	6 297	2 125	59	59	121	67	41.1	35.7	95.7	95.0	31.4	9.2	0.6	0.5
Inspectors and compliance officers	452	405	47	379	452	26	7	6	—	48.1	48.0	60.7	85.1	10.4	—	—	—
Other management related occupations	1 871	1 505	366	1 486	345	14	17	31	8	44.4	37.4	95.5	92.9	50.1	25.4	4.2	1.4
Professional specialty occupations	44 384	40 492	3 892	38 123	3 587	706	171	652	125	40.2	34.6	97.4	94.9	54.1	37.2	1.1	1.2
Engineers, architects, and surveyors	33 343	32 106	1 237	30 211	1 118	534	71	473	46	40.6	31.2	97.9	95.0	55.0	36.5	0.8	—
Architects	97	90	7	90	—	—	—	—	—	37.7	30.0	100.0	100.0	63.3	100.0	—	—
Engineers	33 236	32 006	1 230	30 111	1 118	534	71	473	46	40.6	31.2	97.9	95.0	55.0	36.2	0.8	—
Civil engineers	1 328	1 309	19	1 182	114	29	—	38	—	35.1	25	96.9	100.0	75.7	89.5	1.2	—
Electrical and electronic engineers	2 080	2 042	38	1 883	28	25	5	28	—	35.8	27.8	99.1	84.2	70.5	60.5	—	—
Industrial engineers	9 615	8 831	784	8 428	722	184	55	132	35	41.4	32.8	97.3	93.9	41.9	19.4	0.4	—
Mechanical engineers	13 710	13 531	179	12 746	163	222	4	154	5	41.0	29.0	98.2	100.0	54.5	60.9	1.2	—
Other engineers	6 503	6 293	210	5 872	191	74	7	121	6	41.1	29.0	98.1	96.2	65.1	68.6	0.9	—
Surveyors and mapping scientists	10	10	—	10	—	—	—	—	—	35.0	—	100.0	—	—	—	—	—
Computer systems analysts and scientists	1 391	1 067	324	1 030	324	14	—	7	5	36.1	31.6	98.9	98.5	51.3	36.7	0.7	—
Operations and systems researchers and analysts	876	767	109	740	109	66	—	12	—	38.0	41.5	97.0	94.5	56.1	30.3	0.7	—
Mathematical scientists	197	126	71	112	66	7	—	5	—	38.6	47.5	98.4	100.0	78.6	25.4	—	—
Natural scientists	1 558	1 340	218	1 176	200	43	11	52	7	38.6	32.4	98.5	96.8	75.5	66.1	—	—
Chemists, except biochemists	1 212	1 032	180	888	173	43	—	43	5	36.3	33.4	98.3	96.1	77.3	71.1	—	—
Chemists, except biochemists	346	308	38	288	27	—	—	9	2	43.3	26.5	99.4	100.0	69.5	42.1	—	—
Other natural scientists	64	47	17	47	—	—	—	—	—	61.7	26.5	100.0	100.0	100.0	—	—	—
Health diagnosing occupations	989	70	919	70	850	—	—	—	—	35.0	48.3	91.4	98.5	51.4	24.3	12.8	1.0
Health assessment and treating occupations	969	57	912	57	843	—	—	—	—	33.1	48.5	100.0	98.5	63.2	23.7	—	1.0
Registered nurses	20	13	7	13	—	—	—	—	—	44.3	30.0	53.8	100.0	—	100.0	—	—
Other health assessment and treating occupations	281	219	62	195	62	24	—	7	—	44.5	38.6	74.4	100.0	16.0	38.7	5.5	14.5
Teachers, except postsecondary	988	793	195	769	180	7	4	4	12	38.3	30.6	98.6	85.1	73.3	70.8	—	—
Social scientists and urban planners	43	23	20	23	15	—	—	—	—	50.9	29.4	91.3	100.0	34.8	25.0	—	—
Lawyers and judges	428	365	63	365	59	—	—	11	—	38.1	31.8	100.0	100.0	96.7	88.9	1.6	7.9
Writers, artists, entertainers, and athletes	4 010	3 445	565	3 261	519	77	22	81	34	40.0	35.7	94.0	91.5	30.5	35.6	3.6	3.9
Other professional specialty occupations	216	124	92	124	78	—	—	—	9	43.0	35.7	70.2	70.7	42.7	37.0	—	—
Technical, sales, and administrative support occupations	238 533	118 917	119 616	109 903	112 178	5 443	4 813	5 095	3 956	36.6	34.5	84.6	89.3	17.3	5.1	1.3	0.6
Technicians and related support occupations	36 039	31 880	4 159	29 827	3 675	926	314	985	121	33.7	31.7	92.5	89.3	15.0	15.3	0.6	0.3
Health technologists and technicians	371	227	144	227	125	—	—	6	—	39.3	32.6	95.2	96.5	36.6	6.3	3.1	—
Health technologists	155	115	40	115	89	—	—	—	—	35.9	33.4	95.1	95.4	31.9	—	14.9	—
Licensed practical nurses	216	180	36	180	36	—	—	6	—	40.4	30.7	97.8	100.0	37.8	25.0	—	—
Other health technologists and technicians	28 898	26 163	2 735	24 391	2 454	813	169	836	113	33.6	31.3	92.1	88.5	12.5	11.6	0.5	0.1
Engineering and science technicians	1 984	1 824	160	1 676	126	73	30	20	126	34.9	30.4	94.8	83.1	8.6	5.0	0.4	—
Electrical and electronic technicians	1 795	1 731	64	1 699	51	14	13	25	—	36.1	36.1	85.4	85.9	15.7	—	1.6	—
Industrial and mechanical engineering technicians	15 626	14 437	1 189	13 427	1 068	431	39	444	44	31.8	28.4	93.7	91.3	10.4	11.3	0.6	0.2
Drafting and surveying technicians	10 493	9 171	1 322	8 589	1 169	295	87	321	69	36.4	33.5	89.7	86.8	16.4	13.2	0.2	—
Other engineering and science technicians	6 770	5 490	1 280	5 209	1 096	113	126	143	8	34.3	32.3	93.2	91.7	26.2	24.4	0.9	0.9
Technicians, except health, engineering, and science	213	213	—	213	—	—	—	—	—	35.5	—	100.0	—	28.5	—	—	—
Airplane pilots and navigators	3 372	2 52	901	2 355	805	46	65	52	2	32.5	31.0	97.8	94.3	36.7	26.0	0.5	0.6
Air traffic controllers and broadcast equipment operators	3 372	2 471	901	2 355	805	46	65	52	2	32.5	31.0	97.8	94.3	36.7	26.0	0.5	0.6
Computer programmers	3 133	2 754	379	2 589	291	67	61	91	6	37.5	38.3	88.3	85.5	16.4	20.6	1.4	1.8
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																			
Employed persons 16 years and over—Con.																			
Technical, sales, and administrative support occupations—Con																			
Both sexes				Race				Spanish origin ¹				Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
Total				White		Black		Male		Female		Male		Female		Male		Female	
Total				Male		Female		Male		Female		Male		Female		Male		Female	
32 166	27 579	4 587	26 921	4 362	361	156	40.1	32.9	92.5	89.1	34.9	12.6	4.6	3.2					
2 181	1 910	271	1 844	257	34	8	43.0	35.5	88.2	89.7	25.5	15.9	8.8	0.7					
1 994	1 732	262	1 666	248	34	8	42.8	35.2	89.0	90.5	26.1	16.4	9.9	22.2					
187	178	9	178	9	—	—	44.2	43.3	79.8	66.7	20.2	—	—	—					
228	113	115	102	115	—	—	32	34.0	78.8	96.4	51.3	27.0	10.6	11.3					
28 312	24 842	3 470	24 305	3 344	290	93	41.0	32.6	93.2	92.8	36.0	13.1	4.4	3.7					
1 312	681	631	626	559	37	55	31.6	32.8	85.3	70.1	19.1	2.4	0.9	0.8					
93	93	298	76	255	12	26	33.8	36.6	69.9	70.1	19.4	1.3	—	—					
921	588	333	550	304	25	29	31.3	30.6	87.8	73.0	19.0	3.3	1.0	1.5					
133	33	100	33	100	—	—	38.1	42.5	48.5	70.6	35.0	—	—	—					
170 328	59 458	110 870	53 155	104 141	4 156	4 343	36.8	34.7	76.7	89.3	10.4	4.4	0.2	0.5					
11 648	8 424	3 224	7 800	3 037	390	93	40.6	39.0	84.6	89.2	20.2	8.0	0.1	0.2					
5 045	1 884	3 161	1 627	2 917	154	159	31.4	31.4	93.0	93.0	8.8	3.3	—	—					
43 405	697	42 708	585	40 799	84	1 220	38.1	34.0	91.1	93.2	20.9	4.2	—	—					
38 166	623	37 543	526	36 079	80	912	38.2	34.2	90.5	93.7	20.5	4.5	—	—					
5 239	74	5 165	59	4 720	4	308	35.0	32.7	95.9	90.1	24.3	1.9	—	—					
2 929	46	2 883	42	2 701	4	113	27.8	29.9	100.0	88.9	32.6	4.9	0.4	0.4					
707	285	422	259	404	20	5	34.3	32.3	83.2	91.9	22.5	3.8	2.1	1.4					
3 531	1 642	1 889	1 515	1 693	76	143	37.6	31.0	80.1	70.5	9.3	3.8	—	—					
5 327	2 037	3 290	1 841	3 055	152	139	34.9	33.1	79.9	91.3	11.7	5.7	—	—					
19 462	2 000	17 462	1 888	16 767	79	376	40.5	38.9	95.5	91.5	27.9	5.4	0.9	1.2					
4 569	926	3 643	849	3 441	58	151	46.0	38.5	86.3	86.9	11.9	3.0	—	—					
2 915	607	2 308	581	2 160	122	122	35.0	37.0	86.8	92.5	13.3	4.2	—	—					
923	49	874	49	804	—	—	48.0	39.2	100.0	81.7	—	1.1	—	—					
1 388	731	657	608	508	104	118	32.7	30.6	67.0	80.1	3.4	4.0	1.6	—					
11 283	7 530	3 753	7 025	3 369	345	264	34.3	33.1	81.8	86.1	12.7	4.6	—	—					
19 950	16 464	3 486	13 949	3 183	647	197	34.0	36.8	65.1	66.9	2.2	1.5	—	—					
13 113	9 306	3 807	8 351	3 529	636	202	36.8	34.3	70.9	75.6	6.4	4.7	—	—					
1 484	1 028	456	899	438	14	14	41.0	37.1	67.1	80.7	6.2	3.1	0.5	—					
1 464	169	1 295	683	703	15	45	39.0	34.6	93.4	92.7	20.5	6.3	1.1	—					
4 408	169	4 239	156	3 695	13	376	27.4	31.2	85.8	89.7	8.3	1.7	—	—					
16 777	4 935	11 842	4 448	10 938	299	541	38.6	35.7	84.0	86.3	16.1	5.0	0.8	0.7					
28 444	24 758	3 686	20 861	2 929	2 920	619	46.1	46.3	46.3	49.2	2.0	1.4	0.3	1.8					
5 867	5 450	417	4 741	306	—	—	52.4	—	—	—	—	—	—	—					
5 311	4 922	389	4 325	284	630	94	53.2	35.0	56.6	70.5	3.6	7.4	0.2	—					
556	528	28	416	22	84	6	45.7	30.0	74.2	71.4	3.6	8.0	0.1	—					
22 577	19 308	3 269	16 120	2 623	2 290	525	43.8	47.1	43.4	46.5	1.5	0.7	0.4	2.0					
733	284	449	187	369	82	74	31.1	48.3	64.4	53.0	7.0	—	—	1.3					
14	14	150	14	136	—	—	43.8	48.1	100.0	86.0	14.3	—	—	—					
21 496	18 902	2 594	15 836	2 063	2 191	416	44.1	46.8	43.1	43.0	1.4	0.6	0.3	2.3					
184	108	76	83	55	21	21	35.5	45.0	34.3	51.3	8.3	9.2	4.6	—					
538	479	59	419	53	24	6	31.8	32.4	48.0	64.4	2.5	—	5.4	—					
300 103	286 283	13 820	261 247	11 654	15 423	1 509	39.3	37.4	69.5	61.1	4.2	3.2	1.2	1.2					
51 141	49 769	1 372	45 245	1 077	3 009	237	39.2	37.5	64.7	59.6	2.0	3.2	0.8	0.4					
1 187	1 178	9	1 096	1 178	10	9	42.7	30.0	77.4	100.0	6.8	—	—	—					
2 203	2 148	55	1 877	41	173	8	37.1	39.2	62.5	70.9	2.0	—	1.2	—					
21 437	21 194	243	19 636	187	1 051	49	39.3	33.7	63.6	82.3	1.5	—	0.2	—					
705	701	4	618	4	35	—	34.9	25	85.2	100.0	3.9	—	—	—					
1 053	1 026	27	932	16	76	11	35.6	32.4	71.4	100.0	3.4	25.9	4.3	—					
24 556	23 522	1 034	21 086	820	1 664	169	39.5	38.8	64.3	52.1	2.2	3.6	1.0	0.5					
39 111	38 010	1 101	34 408	918	2 231	126	35.9	32.3	67.9	52.9	2.4	2.8	1.7	1.4					
1 220	1 206	14	1 175	4	4	—	41.8	25.0	76.6	50.0	7.8	35.7	2.2	—					
3 914	3 818	96	3 396	14	307	14	38.1	33.1	61.7	50.0	2.4	—	3.4	—					
8 979	8 839	140	8 229	140	384	19	39.6	33.1	79.8	61.4	2.7	6.4	0.6	—					
2 889	2 847	247	2 397	120	451	16	30.9	33.1	48.6	52.2	1.2	1.6	0.5	—					
3 136	2 919	81	2 151	223	451	14	33.8	31.1	68.9	38.3	2.2	1.3	—	—					
5 300	5 219	81	4 753	51	41	14	33.8	31.1	68.9	38.3	2.2	1.3	—	—					
16 562	16 039	523	14 704	421	752	79	34.1	32.9	65.4	53.7	2.2	2.5	2.3	2.9					

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States												
Fabricated metal industries												
Both sexes	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
	White		Black		Male	Female	Male	Female	Male	Female	Male	Female
	Male	Female	Male	Female								
292	277	15	63	—	11	—	33.2	25—	62.1	53.3	1.8	—
209 559	198 227	11 332	181 399	9 644	1 146	803	39.9	38.0	71.0	62.1	5.1	1.2
95 652	90 467	5 185	83 558	4 566	377	432	42.0	40.7	72.1	66.3	8.2	0.5
103 107	99 246	3 861	90 479	3 172	512	258	37.3	35.7	70.1	57.9	2.2	1.4
27 943	27 448	455	26 178	400	858	8	42.2	36.3	74.1	62.0	2.6	0.6
41 772	39 604	2 168	42 612	1 724	341	182	35.2	35.6	68.4	55.1	1.9	0.3
23 956	23 491	465	21 624	367	65	42	34.2	33.6	69.6	70.8	2.5	3.0
9 436	8 663	773	8 065	681	67	26	39.4	37.1	67.1	55.5	3.9	9.8
313	104	209	14	14	9	—	37.2	34.1	74.0	61.7	8.7	4.3
297	291	6	25	—	9	—	42.4	31.7	44.7	66.7	—	—
2 433	1 691	742	1 490	622	78	49	41.6	37.6	75.3	55.3	3.4	—
2 820	2 688	132	2 477	119	13	—	44.9	32.5	82.1	82.6	16.1	—
4 937	3 740	1 197	3 054	980	152	64	35.2	34.4	58.2	60.1	2.2	1.7
682 208	523 976	158 232	433 821	129 257	19 703	14 986	33.1	37.8	57.1	51.2	1.8	0.9
552 822	417 819	135 003	348 382	110 461	16 762	12 518	38.0	38.0	57.8	51.5	1.8	0.2
330 350	259 079	71 271	214 474	58 093	9 104	7 012	33.5	37.6	55.7	49.1	1.7	0.9
118 554	95 823	22 731	82 726	19 570	2 153	1 568	38.6	38.6	57.3	47.6	1.7	0.8
5 458	4 180	1 278	3 685	1 137	116	102	33.7	37.6	55.8	50.3	1.3	0.5
29 834	26 476	3 358	21 467	2 841	372	262	32.3	34.3	54.2	52.4	2.2	1.3
3 076	2 460	616	2 240	553	155	59	37.3	37.3	73.1	71.6	3.3	2.9
728	527	201	521	194	7	—	40.3	37.2	49.3	52.2	1.3	—
1 089	344	745	66	606	83	65	32.2	40.7	61.9	52.5	2.3	0.8
76	44	32	7	17	15	—	55.0	50.0	43.2	46.9	—	—
1 626	727	899	499	661	181	80	33.8	38.4	57.8	52.2	1.7	—
7 021	6 448	573	5 145	454	98	20	35.3	34.7	53.7	54.8	1.5	—
33 118	28 069	5 049	23 380	4 165	591	455	32.4	34.9	55.3	54.3	1.6	0.8
129 770	93 981	35 789	74 503	27 895	5 459	4 401	33.4	37.6	54.4	48.4	1.7	0.1
179 898	133 078	46 320	111 258	37 976	12 979	4 587	31.7	37.0	59.4	53.0	1.5	0.9
88 701	83 396	5 305	70 872	4 293	738	287	31.5	35.4	60.4	58.8	1.2	1.0
1 115	510	605	387	478	100	26	32.0	36.2	59.7	59.7	1.6	—
87 916	47 597	40 319	38 691	32 709	4 931	4 219	32.0	37.2	58.2	52.3	2.0	0.2
2 166	1 575	591	1 308	496	83	55	32.8	36.7	50.4	43.1	1.6	—
42 574	25 662	16 912	22 650	14 392	1 985	919	38.8	42.6	70.7	56.9	4.2	—
1 169	568	601	516	467	101	37	30.9	44.8	59.3	45.9	—	—
41 405	25 094	16 311	22 134	13 925	1 705	882	39.1	42.6	71.0	57.3	4.3	0.1
55 536	52 572	2 964	42 795	2 464	367	159	35.2	32.7	53.6	59.9	1.4	—
20 569	20 053	516	16 539	427	59	26	37.1	32.7	52.2	52.9	1.4	—
20 324	19 813	511	16 338	422	59	26	37.1	32.7	52.2	52.4	1.3	—
19 373	18 944	409	15 702	331	409	26	37.0	32.7	52.0	50.4	1.2	—
222	203	19	184	19	8	—	39.1	32.3	66.5	31.6	6.9	—
729	646	83	452	72	11	—	37.4	33.6	54.3	67.5	3.6	—
245	240	5	201	5	—	—	44.6	25—	56.7	100.0	2.1	—
34 967	32 519	2 448	26 256	2 037	308	133	34.3	32.7	54.4	61.3	2.5	—
378	363	15	332	15	—	—	40.5	30.6	89.0	40.0	13.8	—
7 921	7 665	256	5 946	207	34	36	36.3	50.8	51.0	60.9	1.1	—
273	260	13	190	7	7	—	34.7	45.7	34.6	46.2	8.1	—
26 395	24 231	2 164	19 788	1 809	267	97	33.7	32.9	55.2	61.6	1.5	—
73 850	53 585	20 265	42 644	16 332	7 314	2 309	31.0	37.2	54.9	48.4	1.7	0.3
146	140	6	132	6	8	—	38.2	30.0	81.4	100.0	8.6	—
6 697	6 046	651	4 737	541	77	844	27.9	34.0	57.1	49.2	1.3	—
877	830	47	668	45	2	—	30.6	35.8	61.2	57.4	2.7	—
11 730	9 157	2 573	7 752	2 084	333	178	31.3	36.4	57.3	49.3	1.5	—
2 004	1 576	428	1 199	374	39	21	32.0	36.3	48.6	44.6	1.3	—
15 407	6 214	9 193	4 996	7 594	1 045	1 196	31.2	37.0	57.5	47.5	1.6	—
36 989	29 622	7 367	23 160	5 688	1 078	812	31.2	35.7	53.1	49.3	1.9	0.1

¹Persons of Spanish origin may be of any race

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Machinery, except electrical									
	Race					Spanish origin ¹					Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
	Total		White		Black		Male		Female		Male		Female		Male		Female			
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female			
Employed persons 16 years and over																				
474 626	415 601	59 025	396 562	54 219	7 123	2 798	6 425	1 454	40.3	33.9	96.2	95.3	49.9	31.6	2.1	1.0				
271 984	231 263	40 721	224 343	37 723	3 330	1 738	3 339	1 044	42.0	34.6	94.5	94.8	47.3	25.3	3.2	1.3				
10 991	9 363	1 628	9 065	1 547	102	17	88	54	39.0	34.5	97.0	96.7	74.8	29.2	0.3	1.2				
29 311	27 467	1 844	27 121	1 769	126	31	304	18	42.0	32.9	97.6	96.3	55.2	34.2	0.6	0.3				
185	172	13	172	13	—	—	—	—	42.4	27.8	83.7	100.0	43.0	—	3.5	—				
12 627	10 204	2 423	9 742	2 076	303	93	188	102	41.4	35.0	95.3	96.3	56.4	30.9	0.4	0.3				
153 717	138 647	15 070	134 875	14 097	1 576	636	1 996	403	43.3	38.0	92.8	92.0	43.9	21.5	0.4	2.8				
146 163	131 706	14 457	128 073	13 513	1 537	636	1 863	367	43.3	37.8	93.3	92.4	43.9	21.8	4.9	2.8				
7 554	6 941	613	6 802	584	39	—	133	36	45.8	43.1	82.1	83.4	15.8	15.5	97.8	67.9				
65 147	45 404	19 743	43 352	18 021	1 223	961	763	467	37.6	32.9	96.6	96.4	49.6	26.4	0.6	0.3				
29 547	19 367	10 180	18 356	9 075	518	568	340	270	34.6	32.3	98.9	96.9	66.0	33.2	0.2	0.4				
10 574	7 243	3 331	6 788	3 115	366	150	137	88	38.5	32.9	92.8	96.8	41.0	28.5	1.2	0.3				
19 303	14 277	5 026	13 854	4 763	252	189	232	82	39.3	34.1	95.5	95.1	30.9	12.2	0.2	0.1				
387	341	46	311	46	23	7	7	—	42.4	30.8	85.3	95.7	17.6	—	—	—				
5 336	4 176	1 160	4 043	1 022	64	54	4 043	27	41.5	33.8	97.4	96.3	55.2	23.0	2.4	0.7				
202 642	184 338	18 304	172 219	16 496	3 793	1 060	3 086	410	37.7	32.4	98.3	96.5	53.1	45.7	0.7	0.4				
132 952	128 276	4 676	119 879	4 260	2 220	186	2 016	131	38.1	30.9	98.4	95.7	53.9	40.3	0.6	0.1				
132 696	128 029	4 667	119 633	4 251	2 205	186	2 008	131	36.7	30.9	98.4	95.7	53.9	40.2	0.6	0.1				
1 331	1 270	61	1 184	54	22	7	20	—	37.4	26.8	94.3	80.3	65.0	36.1	0.5	—				
22 992	22 292	680	20 240	540	468	35	479	19	35.9	30.7	99.2	95.9	66.4	59.4	0.6	—				
30 133	27 831	2 302	26 592	2 126	524	72	415	91	39.2	31.9	97.8	93.8	64.1	25.6	0.3	0.2				
58 524	58 389	1 135	54 575	1 054	876	32	811	21	38.7	29.4	98.5	97.6	54.7	37.7	0.7	—				
18 788	18 247	541	17 072	477	315	40	283	—	37.6	30.3	98.6	97.4	54.1	43.6	0.8	—				
27	27	—	19	—	8	—	—	—	31.9	—	—	—	—	—	—	—				
26 705	22 785	3 920	20 825	3 284	750	331	459	99	35.1	31.0	98.7	97.1	57.6	56.4	0.5	—				
4 603	3 781	822	3 544	743	120	41	45	13	38.5	33.0	98.2	96.7	41.4	35.0	0.8	—				
682	502	180	682	155	16	7	14	—	41.7	33.4	99.0	97.2	69.5	26.7	—	—				
2 626	2 158	468	1 931	381	124	17	48	21	37.1	29.5	98.5	91.9	69.2	59.8	2.0	2.6				
806	1 513	307	1 338	232	107	17	34	12	36.6	30.4	97.8	95.4	70.0	63.8	—	—				
806	645	161	593	149	17	—	14	9	38.2	28.3	100.0	85.1	67.4	52.2	6.8	7.5				
145	122	23	114	15	2	8	12	—	54.7	54.3	100.0	87.0	86.9	87.0	9.0	—				
2 075	153	1 922	148	1 833	—	82	—	18	38.6	46.3	100.0	98.7	34.0	18.9	—	0.4				
1 992	86	1 906	86	1 831	—	68	—	16	38.6	46.4	100.0	98.7	29.1	19.0	—	0.4				
67	67	16	62	2	—	14	—	2	38.6	37.5	100.0	100.0	40.3	—	—	—				
3 284	2 791	493	2 626	423	80	54	68	10	36.5	34.1	94.1	92.5	33.2	47.1	1.4	—				
5 964	4 641	1 323	4 420	1 249	116	64	35	50	37.8	30.9	99.6	99.6	75.7	51.1	0.8	0.5				
1 486	1 318	168	1 267	149	31	19	7	7	41.7	31.2	100.0	100.0	99.1	95.8	1.1	—				
20 852	17 310	3 642	16 423	3 392	312	202	382	41	38.4	32.1	96.9	95.8	34.9	52.4	1.8	0.8				
1 150	537	613	507	558	22	49	—	20	40.9	35.9	94.0	93.8	39.5	40.3	1.3	—				
584 700	313 413	271 287	291 633	251 226	12 168	12 863	9 535	8 745	34.6	33.1	89.5	90.9	21.5	7.4	0.8	0.5				
129 634	111 989	17 645	103 242	15 234	3 463	1 087	3 067	617	32.3	30.4	95.4	93.9	21.3	31.2	0.4	0.1				
554	308	246	272	218	29	28	4	6	34.2	39.5	93.5	92.3	43.8	16.7	—	—				
246	46	200	46	176	6	24	4	6	33.6	41.6	100.0	90.5	13.0	11.0	—	—				
308	262	46	226	42	29	4	4	—	33.4	29.2	92.4	100.0	49.2	41.3	—	—				
82 361	73 837	8 524	68 583	7 522	2 059	484	2 221	346	31.9	30.7	94.7	91.0	10.8	12.6	0.4	—				
28 993	24 548	2 445	21 966	1 988	882	210	983	184	30.4	30.0	95.7	88.7	10.0	10.5	0.1	—				
3 369	3 104	276	2 921	250	76	6	67	9	35.0	31.6	89.1	76.2	21.2	13.2	1.2	—				
36 869	33 468	3 401	31 721	3 121	767	60	853	79	31.9	29.0	95.3	95.4	9.5	14.8	0.5	—				
13 130	12 717	2 413	11 975	2 066	334	208	318	74	34.7	33.4	92.8	88.9	13.5	11.4	0.5	—				
46 719	37 844	8 875	34 387	7 494	1 375	575	842	265	32.9	30.1	96.7	95.9	41.6	49.5	0.5	0.2				
573	559	14	557	14	2	—	2	—	38.4	26.3	98.9	100.0	33.8	100.0	2.3	—				
102	73	29	73	29	—	—	—	—	38.2	27.7	69.9	100.0	23.3	44.8	—	—				
32 460	25 206	7 254	23 078	6 077	809	490	470	171	32.9	29.8	98.6	98.6	53.7	57.3	0.5	0.2				
13 584	12 006	1 578	10 679	1 374	564	85	370	94	32.9	29.0	92.9	86.1	16.6	13.5	0.3	0.7				

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Machinery, except electrical												
United States												
Both sexes	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
	Total		White		Male	Female	Male	Female	Male	Female	Male	Female
	Male	Female	Male	Female								
74 806	66 495	8 311	64 754	7 766	1 064	354	39.1	32.6	93.9	97.8	38.7	26.2
8 286	7 719	567	7 382	522	241	23	41.4	34.6	90.6	79.9	24.9	20.6
7 996	7 440	556	7 103	511	241	23	41.3	34.4	91.4	80.2	25.3	21.0
290	279	11	279	148	—	—	44.5	60.0	69.2	63.6	13.6	—
445	285	160	285	148	—	—	44.5	60.0	69.2	63.6	13.6	—
61 730	55 428	6 302	54 113	5 973	779	211	38.6	32.3	95.6	94.4	40.0	40.6
3 725	2 641	1 084	2 641	1 084	—	—	38.6	32.3	95.6	94.4	40.0	40.6
1 977	1 384	593	1 384	593	—	—	38.6	32.3	95.6	94.4	40.0	40.6
3 128	2 596	532	2 530	493	21	37	38.8	32.9	86.7	80.3	12.7	2.8
400	333	67	333	54	—	—	38.2	30.3	87.9	80.6	12.5	3.0
380 240	134 929	245 311	123 437	228 226	7 641	11 422	35.0	33.4	82.4	90.8	13.1	5.1
23 274	16 558	7 716	15 829	8 389	440	176	39.0	37.6	90.3	91.0	23.6	7.1
17 520	8 758	8 762	8 758	8 758	705	835	39.0	37.6	90.3	91.0	23.6	7.1
101 427	99 473	1 954	97 519	1 954	75	3 546	35.3	33.0	84.9	94.9	18.3	4.8
90 040	78 4	11 936	77 0	84 892	44	2 773	35.3	33.0	84.9	94.9	18.3	4.8
11 437	210	11 417	177	10 343	22	2 336	35.3	33.0	84.9	94.9	18.3	4.8
5 494	139	5 355	113	4 948	20	248	39.0	30.8	87.9	91.0	14.2	2.8
1 380	425	955	417	904	—	—	39.6	31.8	92.0	88.7	16.5	3.4
7 431	2 842	4 589	2 659	4 049	124	328	39.6	31.8	91.1	91.7	29.9	5.4
11 938	4 788	7 150	4 329	6 549	340	415	36.6	30.7	83.3	75.5	11.1	4.7
34 320	4 429	29 891	4 021	28 422	246	792	36.5	37.3	93.8	91.1	26.4	5.2
6 587	1 698	4 889	1 593	4 656	87	156	40.6	36.3	88.7	91.8	10.7	3.7
5 415	1 322	4 093	1 206	3 879	85	175	40.6	36.3	90.5	92.0	20.7	4.3
2 241	1 112	1 129	1 04	1 920	8	160	36.7	40.4	76.8	83.7	7.1	0.9
3 301	1 621	1 680	1 385	1 537	182	101	30.5	30.9	73.2	77.6	5.4	4.6
31 189	21 207	9 982	19 756	9 288	1 001	503	34.9	33.5	85.9	89.3	15.9	6.3
30 117	24 714	5 403	21 999	4 869	1 836	373	32.7	34.0	70.1	73.0	2.9	2.9
37 001	26 727	10 274	24 466	9 134	1 498	838	33.9	32.5	75.5	82.5	6.4	4.8
2 697	1 752	945	1 643	865	89	68	36.8	32.1	83.8	82.1	10.7	3.7
13 458	3 095	10 362	2 971	1 942	155	29	35.8	32.3	92.8	90.8	26.1	12.1
39 954	12 972	26 982	12 053	24 843	651	1 444	38.0	31.3	92.3	93.4	14.6	2.8
48 137	40 133	8 004	34 304	6 261	4 303	1 447	41.9	41.3	52.5	54.8	2.6	1.4
8 913	8 256	657	7 463	554	634	92	50.1	32.6	66.0	72.1	5.4	2.7
8 297	7 654	643	6 902	540	606	92	50.3	32.9	64.9	71.5	4.9	2.8
616	602	14	561	14	28	—	47.5	25	80.1	100.0	12.3	—
39 224	31 877	7 347	26 841	5 707	3 649	1 355	39.4	42.3	49.0	53.2	1.8	1.3
2 679	690	1 989	525	1 667	127	281	33.3	44.4	49.9	58.4	1.7	1.2
405	137	268	114	226	17	38	41.6	43.1	70.1	88.8	—	—
35 434	30 625	4 759	25 858	3 537	3 497	996	39.5	41.1	48.6	48.5	1.8	1.4
706	375	331	344	277	28	40	40.0	44.2	73.1	61.9	8.0	2.4
1 141	950	191	795	136	142	40	31.0	36.0	60.4	53.9	4.4	—
657 162	615 748	41 414	572 493	34 304	24 360	3 741	36.4	35.3	74.8	67.0	4.6	3.9
130 364	124 501	5 863	115 053	4 898	5 671	608	35.6	33.0	72.1	66.6	3.6	5.2
2 111	2 050	61	1 982	45	16	—	41.6	38.2	80.3	82.0	7.9	26.2
6 878	6 510	368	5 832	307	362	38	34.4	35.1	66.0	54.9	3.5	—
35 173	34 488	685	32 198	592	1 439	74	37.5	32.7	68.8	66.2	2.6	3.1
2 048	1 810	238	1 661	186	107	20	33.4	34.8	86.1	73.9	7.5	3.8
5 508	5 364	144	4 887	108	236	31	34.6	30.8	70.2	66.4	2.2	—
78 646	74 279	4 367	68 493	3 660	3 462	429	34.8	32.8	73.8	66.9	4.1	6.0
39 764	38 534	1 230	35 802	1 029	1 720	116	36.7	33.4	72.6	59.0	3.1	1.7
1 752	1 700	52	1 645	36	20	9	41.8	43.8	80.2	55.8	10.2	7.7
3 566	3 515	51	3 290	49	147	2	45.2	45.9	59.1	37.3	1.7	—
18 183	17 607	576	16 659	476	660	36	37.5	34.5	80.0	56.8	3.7	0.9
4 344	4 111	233	3 422	204	496	29	31.7	28.7	58.4	60.9	2.0	—
7 893	7 817	76	7 313	70	265	6	36.2	42.5	70.6	64.5	1.7	—
4 026	3 784	242	3 473	194	132	48	33.4	32.4	66.5	66.1	3.1	2.1

¹Persons of Spanish origin may be of any race

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																		
Employed persons 16 years and over—Con.																		
	Race						Machinery, except electrical				Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
	Total		White		Black		Spanish origin ¹		Median age		Male		Female		Male		Female	
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Precision production, craft, and repair occupations—Con																		
Extraneous occupations	635	573	519	51	31	11	33	329	31.2	31.4	63.7	71.0	1.0	—	—	—	—	
Precision production occupations	486 999	452 140	421 119	28 326	16 938	3 006	19 825	3 259	36.6	35.9	75.7	67.3	5.0	3.8	2.4	0.5	—	
Supervisors, production occupations	146 720	136 121	128 474	9 301	4 741	704	4 615	807	41.1	38.6	80.0	77.1	10.1	7.6	1.0	0.2	—	
Precision metalworking occupations	283 942	275 256	256 857	7 333	9 425	983	12 265	535	34.1	32.6	74.4	64.9	2.6	2.2	3.0	0.6	—	
Tool and die makers	64 867	63 964	61 403	603	7 284	114	643	25	37.4	36.3	80.0	62.3	3.5	2.7	3.1	0.5	—	
Machinists	191 232	185 198	170 571	5 087	7 333	698	9 678	387	32.8	31.5	73.0	64.4	2.3	1.8	3.1	0.5	—	
Sheet metal workers	9 787	9 508	9 322	232	7 303	47	523	6	35.6	37.8	69.6	69.5	1.9	6.5	0.8	0.7	—	
Other precision metal workers	18 056	16 411	15 761	1 247	505	124	421	117	40.7	37.5	71.5	67.5	2.4	2.4	1.5	1.4	—	
Precision textile, apparel, and furnishings machine workers	594	411	377	116	13	61	26	—	33.9	32.1	61.3	56.3	3.2	6.6	1.0	—	—	
Precision food production occupations	964	812	701	114	78	35	103	14	34.5	36.7	51.7	59.9	3.7	2.0	10.7	11.8	—	
Precision inspectors, testers, and related workers	6 844	5 494	5 107	1 162	238	125	140	81	42.0	38.5	79.4	67.0	5.0	0.4	0.5	—	—	
Plant and system operators	5 512	5 234	4 871	258	251	11	116	8	42.2	28.6	85.1	81.3	18.7	15.1	0.4	—	—	
Other precision production occupations	41 823	28 812	24 732	10 042	2 192	1 087	2 560	1 854	31.7	36.0	65.7	61.0	2.4	1.8	3.0	0.5	—	
Operators, fabricators, and laborers	1 000 849	787 719	690 132	174 628	63 458	25 910	50 826	16 112	33.2	35.5	65.1	60.0	2.2	1.3	0.7	0.2	—	
Machine operators, assemblers, and inspectors	862 293	668 010	589 349	159 235	49 297	23 436	42 987	14 549	33.2	35.6	66.2	60.1	2.2	1.4	0.7	0.2	—	
Machine operators and tenders, except precision	448 360	376 944	333 805	58 495	27 481	9 386	23 910	5 386	33.2	35.4	65.3	58.1	2.0	1.4	0.9	0.4	—	
Metalworking and plastic working machine operators	204 978	181 681	166 680	20 269	8 836	2 351	9 010	995	33.5	35.7	67.2	59.3	1.9	1.6	0.9	0.5	—	
Fabricating machine operators, n.e.c.	2 953	2 026	1 817	800	157	92	131	39	34.0	35.6	58.4	67.4	1.0	0.8	0.7	—	—	
Metal and plastic processing and woodworking machine operators	25 269	22 777	20 200	2 072	1 817	258	1 193	225	33.8	34.5	65.8	58.5	2.6	1.2	1.2	1.6	—	
Printing machine operators	3 827	2 534	2 251	1 179	179	77	101	50	35.1	32.7	74.0	81.1	5.0	3.7	1.9	1.7	—	
Textile machine operators	1 802	968	768	595	175	222	19	42	31.8	36.3	60.1	35.6	1.4	0.7	0.5	—	—	
Textile sewing machine operators	1 494	421	326	847	60	143	14	109	35.5	40.0	65.3	48.8	8.6	—	—	—	—	
Laundry and dry cleaning machine operators	95	51	28	36	23	—	—	—	28.7	39.2	74.5	65.9	7.8	—	9.8	—	—	
Packaging and filling machine operators	1 050	636	414	526	370	71	23	36	31.9	33.5	66.5	54.8	2.5	0.5	—	2.2	—	
Furnace, kiln, and oven operators, except food	6 289	5 830	5 028	406	627	46	206	15	36.0	35.8	58.8	73.9	1.6	1.1	0.1	—	—	
Other specified machine operators	34 313	28 875	24 737	4 442	2 923	743	1 973	397	32.0	33.5	59.9	63.2	1.8	1.5	0.6	0.5	—	
Miscellaneous and not specified machine operators	166 290	131 145	111 444	27 479	12 613	5 431	11 227	3 469	32.7	35.5	64.0	56.0	2.1	1.2	0.9	0.3	—	
Fabricators, assemblers, and hand working occupations	328 403	234 219	203 858	76 474	18 432	11 118	17 201	7 434	32.2	35.2	65.2	60.0	1.8	1.3	0.5	0.1	—	
Welders and cutters	106 340	101 444	89 223	4 090	6 948	572	7 868	304	31.8	33.9	63.3	59.3	1.2	0.7	0.9	—	—	
Solders and brazers	4 059	1 047	920	2 533	65	222	107	321	30.3	33.4	69.2	59.8	2.1	0.8	—	0.5	—	
Assemblers	215 912	130 230	112 439	69 340	11 286	10 264	9 111	6 809	32.6	35.3	66.6	60.1	2.3	1.3	0.3	0.1	—	
Hand working occupations	2 092	1 498	1 276	511	133	60	115	—	33.5	34.8	63.4	65.5	1.5	2.0	1.1	0.8	—	
Production inspectors, testers, samplers, and weighers	85 530	56 847	51 466	24 266	3 384	2 932	1 876	1 729	38.5	37.7	76.9	65.3	4.8	1.6	0.1	—	—	
Graders and sorters, except agricultural	949	511	405	310	69	86	62	72	38.2	31.2	56.2	50.2	1.6	—	1.2	—	—	
Other production inspectors, testers, samplers, and weighers	84 581	56 336	51 281	23 956	3 315	2 846	1 814	1 657	38.5	37.8	77.1	65.6	4.9	1.6	0.1	—	—	
Transportation and material moving occupations	65 054	60 895	51 784	3 485	7 293	547	3 129	1 60	34.6	32.3	59.4	69.0	1.8	2.1	0.8	—	—	
Transportation occupations	22 316	21 382	18 322	774	2 525	131	1 065	59	36.3	31.7	57.9	66.7	1.8	2.6	1.0	—	—	
Motor vehicle operators	21 939	21 011	17 990	768	2 499	131	1 043	59	36.3	31.7	57.6	67.1	1.6	2.6	1.0	—	—	
Truck drivers	20 178	19 456	16 666	589	2 309	106	928	50	36.0	31.5	57.4	67.5	1.5	2.4	1.0	—	—	
Driver-sales workers	583	497	465	71	32	15	5	4	36.4	27.5	72.0	60.5	6.8	—	4.6	—	—	
Other motor vehicle operators	1 178	1 058	859	108	158	10	110	5	42.3	39.3	55.3	70.0	1.9	5.8	—	—	—	
Rail and water transportation occupations	377	371	332	6	26	—	—	—	37.1	30.0	72.0	69.6	13.7	—	—	—	—	
Material moving equipment operators	42 738	39 513	33 462	2 711	4 768	416	2 064	101	33.9	32.5	60.2	69.6	1.8	1.9	0.6	—	—	
Supervisors, material moving equipment operators	1 027	944	83	905	74	18	23	—	40.1	36.5	92.6	92.8	1.1	20.5	—	—	—	
Crane, hoist and winch operators	6 002	6 498	5 337	98	973	—	277	2	41.2	35.0	50.6	68.3	1.1	—	0.5	—	—	
Excavating, grading, and dozer machine operators	562	526	463	21	46	15	35	—	34.4	37.5	51.7	55.6	1.9	—	21.9	—	—	
Other material moving equipment operators	34 547	31 545	26 757	2 518	3 731	392	1 729	99	32.9	32.3	61.4	69.2	1.6	1.5	0.3	—	—	
Handlers, equipment cleaners, helpers, and laborers	73 502	58 814	48 999	11 908	6 868	1 927	4 710	1 403	31.2	35.3	58.8	56.0	2.0	1.0	0.4	0.3	—	
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	104	104	104	—	—	—	—	—	36.7	—	88.5	—	7.7	—	—	—	—	
Helpers, craft and production	7 127	6 607	5 456	415	653	92	749	27	26.0	31.6	57.3	62.7	1.2	3.5	0.1	1.0	—	
Construction laborers	986	949	827	27	106	10	71	—	30.4	25	57.9	13.5	3.5	—	—	—	—	
Freight, stock, and material handlers	10 498	9 111	7 810	1 139	969	215	420	110	31.6	33.8	63.6	59.3	2.9	2.0	0.8	—	—	
Garage and service station occupations, and equipment cleaners	3 677	3 094	2 583	429	348	145	187	22	32.2	33.2	52.9	54.4	0.7	—	0.6	—	—	
Hand packers and packagers	14 563	8 397	7 298	5 069	785	664	534	699	34.7	38.1	52.9	50.9	2.3	0.7	0.2	0.4	—	
Laborers, except construction	36 547	30 552	24 921	4 829	4 007	801	2 749	545	31.3	34.1	58.0	60.2	2.0	0.9	0.3	0.3	—	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Electrical machinery, equipment, and supplies														Percent self-employed		
	Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college				
	Total		White		Black												
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over																	
411 328	352 283	59 045	330 844	53 286	7 042	3 150	99 268	67 928	76 599	37.2	35.5	82.1	70.0	22.6	4.5	0.6	0.2
206 144	167 246	38 898	159 799	35 310	3 269	2 102		3 556	2 282	40.8	34.4	97.6	92.3	58.0	27.7	1.0	0.8
8 590	7 258	1 321	7 006	1 242	97	46		119	26	42.4	34.9	96.5	92.0	36.2	23.2	1.3	0.8
21 408	19 279	2 129	18 844	2 034	176	64		197	53	39.2	33.0	99.0	100.0	78.2	97.6	0.2	0.5
132	120	12	120	12	—	—				37.4	33.3	98.5	98.4	61.9	27.0	0.6	—
11 044	8 619	2 425	8 252	2 215	221	156		113	113	43.1	38.4	97.7	96.1	43.1	31.8	0.4	0.6
110 620	97 390	13 230	93 284	12 237	1 464	549		2 202	603	43.4	37.3	95.9	89.9	53.6	19.5	1.9	1.7
108 455	95 495	12 950	91 522	11 963	1 630	563		2 129	603	43.4	37.1	95.9	89.8	53.0	19.5	1.7	1.7
2 175	1 895	280	1 762	274	54	6		73	42.1	44.1	87.5	95.4	33.0	18.2	81.1	—	—
54 327	34 549	19 778	32 272	17 566	1 091	267		918	801	39.1	33.5	96.5	91.8	54.2	23.9	0.5	0.3
23 841	14 990	8 851	13 972	7 743	346	534		430	350	35.9	32.6	99.2	95.3	69.9	33.2	0.3	0.5
10 655	5 974	4 681	5 991	4 003	369	439		211	302	40.7	36.6	91.5	83.7	43.6	18.3	0.4	—
14 826	9 840	4 986	9 428	4 689	234	217		205	107	41.3	32.5	95.5	92.9	34.6	12.5	0.2	—
499	364	100	311	100	24	19		20	23	40.8	40.7	85.4	61.5	24.2	—	—	—
4 506	3 381	1 125	3 170	1 031	118	58		52	19	42.0	34.9	97.7	97.1	63.6	26.8	3.1	1.2
205 184	185 037	20 147	171 045	17 976	3 793	1 048		3 960	686	39.1	33.4	98.7	92.9	59.6	36.5	0.7	0.9
156 169	148 337	7 832	136 875	6 848	2 662	363		3 216	285	39.2	31.5	98.9	93.6	61.7	40.2	0.6	0.5
73	68	5	68	5	—	—		—	—	42.3	30.0	100.0	100.0	80.9	100.0	0.6	0.5
156 063	148 236	7 827	136 783	6 843	2 653	363		3 216	285	39.2	31.5	98.9	93.6	61.7	40.2	0.6	0.5
99 161	95 778	3 383	87 773	2 884	14	6		—	—	39.2	34.2	96.6	86.7	64.4	—	0.9	—
27 824	24 795	3 029	23 451	2 743	1 728	145		2 017	144	38.6	30.9	99.2	93.8	66.5	48.8	0.7	0.9
10 944	10 651	293	10 085	270	118	160		622	110	40.6	32.5	98.3	92.8	46.9	25.9	0.2	—
17 440	16 363	1 077	14 860	907	353	38		342	31	38.7	31.0	98.8	95.8	55.9	49.5	0.4	2.0
33	33	—	24	—	9	—		—	—	29.8	—	100.0	—	15.2	—	0.3	0.3
8 896	7 312	1 584	6 786	1 415	173	81		154	33	35.1	31.9	99.4	95.5	61.7	39.5	0.8	1.3
4 617	3 644	973	3 447	898	141	75		82	32	40.6	37.0	97.0	89.3	46.3	28.9	1.3	—
852	475	377	435	346	11	17		6	7	39.7	39.7	98.7	96.8	74.5	20.7	1.3	—
3 747	3 079	668	2 758	529	85	47		28	42	39.0	31.6	98.7	89.7	77.2	58.4	1.2	1.6
2 003	1 651	352	1 468	262	54	13		28	17	39.6	30.2	97.9	95.7	76.5	84.9	0.4	—
1 744	1 428	316	1 290	267	31	34		25	25	38.6	34.9	99.6	82.9	78.1	28.8	2.2	3.5
147	120	27	91	20	—	—		—	—	52.8	34.6	100.0	100.0	95.0	100.0	4.2	—
1 953	1 118	835	97	1 768	11	37		—	36	31.0	47.8	93.2	97.4	39.0	25.4	2.1	—
1 835	52	1 783	37	1 721	7	32		—	36	31.8	47.8	84.6	98.0	55.8	24.1	1.7	1.7
118	66	52	60	47	4	5		—	—	30.1	49.8	100.0	76.9	25.8	73.1	—	13.5
2 384	1 430	954	1 296	772	81	121		25	63	39.3	36.4	92.4	76.5	31.2	16.7	0.4	0.8
4 759	3 637	1 122	3 459	1 038	103	31		52	19	38.6	30.0	99.3	95.9	75.0	46.7	1.0	—
80	54	26	39	20	15	6		8	10	40.4	43.1	87.0	61.5	20.4	71.5	—	—
1 404	1 289	115	1 242	98	47	6		9	10	42.0	30.1	100.0	100.0	99.5	72.2	0.5	—
19 490	15 271	4 219	14 268	3 833	445	245		369	142	40.1	33.7	98.9	92.2	34.1	33.7	1.9	1.4
686	271	415	252	391	19	19		11	17	41.8	42.1	94.1	94.5	48.3	43.1	—	—
484 005	237 320	246 685	211 987	219 869	13 173	16 243		10 483	11 947	34.2	33.7	90.5	88.3	19.9	6.4	0.8	0.2
135 749	110 608	25 141	98 421	21 132	4 973	1 793		4 342	1 762	32.5	32.9	94.9	84.9	16.5	15.2	0.5	0.2
610	366	244	326	225	14	14		11	—	34.4	34.8	100.0	85.2	42.3	13.5	1.6	—
123	21	102	21	88	—	—		—	—	57.5	39.7	100.0	75.5	—	6.9	—	—
487	345	142	305	137	—	—		11	—	33.6	32.8	100.0	92.3	44.9	18.3	1.7	—
110 509	91 511	18 998	81 563	15 827	4 145	1 443		3 613	1 489	32.5	33.9	94.6	82.0	10.8	7.5	0.4	0.2
72 477	61 487	10 990	54 048	8 915	3 080	921		2 533	954	31.8	34.5	94.5	79.3	10.1	5.7	0.3	0.1
1 825	1 571	354	1 438	214	61	21		84	22	35.1	32.5	91.9	73.6	25.1	16.1	1.6	—
23 450	19 914	3 536	18 321	3 202	592	103		729	335	33.5	31.1	95.5	94.1	9.2	11.3	0.4	0.1
12 757	8 539	4 218	7 756	3 496	412	398		267	376	36.2	34.6	93.1	79.5	17.3	8.7	0.8	0.2
24 630	18 731	5 899	16 532	5 080	828	336		718	273	32.3	30.6	96.8	93.9	43.4	40.0	0.8	0.3
296	294	2	292	2	2	—		6	—	37.0	40.0	97.6	100.0	34.0	—	—	—
463	333	130	305	96	10	22		4	5	33.4	32.0	90.1	70.8	20.1	5.4	1.8	—
15 253	11 166	4 087	10 187	3 559	369	175		340	126	32.0	29.6	98.3	97.4	56.6	50.4	0.4	—
8 618	6 938	1 680	5 748	1 423	447	139		368	142	32.6	33.6	94.5	87.3	23.8	17.3	1.2	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Electrical machinery, equipment, and supplies												
United States												
Employed persons 16 years and over—Con												
Technical, sales, and administrative support occupations—Con												
Sales occupations												
Supervisors and proprietors, sales occupations												
Sales representatives, finance and business services												
Sales representatives, commodities, except retail												
Sales workers, retail and personal services												
Cashiers												
Other sales occupations, retail and personal services												
Sales related occupations												
Administrative support occupations, including clerical												
Supervisors, administrative support occupations												
Computer operators												
Secretaries, stenographers, and typists												
Stenographers and typists												
Receptionists												
Other information clerks												
File clerks												
Other records processing occupations, except financial												
Bookkeepers, accounting, and auditing clerks												
Payroll and timekeeping clerks												
Other financial records processing occupations												
Telephone operators												
Mail and message distributing occupations												
Production coordinators and expeditors												
Traffic, shipping, and receiving clerks												
Stock and inventory clerks												
Other material recording, scheduling, and distributing clerks												
Adjusters and inspectors												
Data-entry keyers												
Other administrative support occupations												
Service occupations												
Private household occupations												
Protective service occupations												
Guards												
Other protective service occupations												
Service occupations, except protective and household												
Food preparation and service occupation												
Health service occupations												
Cleaning and building service occupations, except household												
Personal service occupations												
Farming, forestry, and fishing occupations												
Precision production, craft, and repair occupations												
Mechanics and repairers												
Supervisors, mechanics and repairers												
Automobile mechanics, including body												
Industrial machinery repairers												
Electronic repairers, communications and industrial equipment												
Heating, air conditioning, and refrigeration mechanics												
Other mechanics and repairers												
Construction trades												
Supervisors, construction occupations												
Carpenters												
Electricians												
Painters, construction and maintenance												
Plumbers, pipefitters, and steamfitters												
Other construction trades												

*Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Electrical machinery, equipment, and supplies																	
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed					
	Total		White		Black		Male		Female		Male		Female		Male		Female	
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over—Con.																		
Precision production, craft, and repair occupations—Con.																		
Extraction occupations																		
226	165	61	147	47	18	14	5	32.7	37.2	80.0	67.2	4.8	—	—	—	—	—	
287 397	179 732	107 665	83 405	9 511	10 930	9 892	14 372	37.1	39.7	80.0	67.2	4.8	—	—	—	—	—	
116 450	89 764	26 686	22 912	4 109	2 011	4 037	2 508	38.2	41.2	85.6	70.8	17.1	4.7	4.7	0.3	0.3	0.3	
56 050	51 180	4 870	47 059	3 921	2 395	2 384	424	38.6	40.9	85.6	59.8	2.2	7.3	7.3	0.2	0.2	0.2	
17 719	17 416	303	16 840	1 740	21	379	40	39.7	43.8	73.4	79.9	2.2	7.3	7.3	0.1	0.1	0.1	
27 909	25 515	2 385	23 262	1 732	1 569	1 631	258	37.6	37.6	86.0	75.3	2.1	7.3	7.3	0.1	0.1	0.1	
4 009	3 820	189	3 423	1 732	1 569	1 631	258	37.6	37.6	86.0	75.3	2.1	7.3	7.3	0.1	0.1	0.1	
6 422	4 429	1 993	4 074	1 742	194	217	20	32.9	32.9	66.7	62.1	1.8	3.7	3.7	0.3	0.3	0.3	
787	159	628	125	20	232	207	157	45.9	46.7	70.5	61.8	3.4	0.3	0.3	—	—	—	
535	314	221	263	180	24	109	27	32.0	32.0	70.5	40.3	2.5	0.5	0.5	—	—	—	
30 382	14 673	15 709	12 743	994	1 842	1 842	690	35.1	35.1	65.9	59.3	5.1	11.3	11.3	7.2	7.2	7.2	
4 642	4 184	458	3 845	197	62	197	119	39.0	39.0	85.6	73.8	6.8	1.7	1.7	—	—	—	
78 551	19 458	59 093	14 800	42 870	1 772	6 156	2 592	35.1	29.7	68.7	61.6	4.3	2.3	2.3	0.5	1.1	1.1	
Operators, fabricators, and laborers																		
862 306	363 915	498 391	300 671	397 730	39 940	65 000	32 763	36.5	33.0	65.6	59.8	2.6	1.2	1.2	0.2	0.1	0.1	
758 441	296 839	461 602	245 582	367 852	31 416	60 322	27 006	36.5	33.2	66.3	60.0	2.6	1.3	1.3	0.3	0.1	0.1	
289 096	149 834	139 262	112 063	124 282	16 109	18 753	14 022	34.0	34.0	63.8	58.5	2.2	1.1	1.1	0.2	0.1	0.1	
59 305	41 587	17 718	36 620	15 261	3 354	1 855	2 617	37.9	38.3	62.9	56.9	1.4	0.7	0.7	0.1	0.1	0.1	
4 212	1 537	2 675	1 371	2 349	124	264	71	41.3	38.2	64.0	59.1	0.8	0.7	0.7	0.5	—	—	
Metal and plastic processing and woodworking machine operators																		
19 239	13 059	6 180	10 989	5 280	1 264	654	1 212	36.7	32.3	65.1	60.5	2.1	1.1	1.1	0.1	0.1	0.1	
4 129	904	2 225	1 610	1 844	166	212	209	34.3	30.8	76.1	67.4	5.6	1.1	1.1	0.7	—	—	
1 533	543	990	467	750	50	169	61	33.0	25.7	69.4	53.8	2.4	0.6	0.6	—	—	—	
2 109	263	1 846	1 389	1 389	65	271	17	36.5	32.5	42.6	49.8	3.4	1.1	1.1	—	0.6	0.6	
Textile sewing machine operators																		
124	45	79	29	46	16	21	—	34.6	32.5	100.0	58.2	11.1	—	—	—	—	—	
1 714	467	1 247	973	1 002	71	154	46	36.8	32.1	69.8	61.3	0.4	4.3	4.3	—	—	—	
4 727	3 423	1 304	2 932	1 142	395	101	134	36.4	36.7	63.5	63.2	2.2	1.6	1.6	0.2	0.4	0.4	
30 022	17 234	12 788	14 193	10 559	1 930	1 327	1 682	33.0	33.0	61.3	61.6	2.6	1.8	1.8	0.2	—	—	
161 982	69 772	92 210	55 500	72 441	8 674	13 725	7 973	33.4	33.4	64.4	58.1	2.6	1.1	1.1	0.3	0.1	0.1	
Fabricators, assemblers, and hand working occupations																		
366 507	113 039	253 468	91 734	199 514	12 709	33 719	10 771	35.8	31.1	65.8	59.3	2.4	1.2	1.2	0.4	0.1	0.1	
28 485	19 289	9 196	15 953	7 741	2 254	975	1 679	36.8	32.9	62.6	53.9	1.2	0.5	0.5	0.4	—	—	
15 245	1 925	1 320	1 545	1 026	98	1 464	517	35.7	25—	53.5	55.5	3.1	1.0	1.0	0.4	0.2	0.2	
320 294	90 689	229 605	73 266	180 045	10 239	31 117	8 488	35.8	30.8	66.8	59.8	2.6	1.2	1.2	0.3	0.1	0.1	
2 483	1 136	1 347	970	1 102	118	163	87	34.1	31.3	58.9	58.4	1.2	2.8	2.8	0.4	0.3	0.3	
102 838	33 966	68 872	29 566	56 275	2 598	7 850	2 213	39.2	37.5	78.4	63.5	5.3	1.8	1.8	0.2	0.1	0.1	
1 335	263	1 072	207	671	45	282	4	35.6	36.6	74.1	62.3	2.3	3.2	3.2	—	—	—	
Graders and sorters, except agricultural																		
Other production inspectors, testers, samplers, and weighers																		
101 503	33 703	67 800	29 359	55 604	2 553	7 568	2 209	39.2	37.5	78.4	65.6	5.3	1.7	1.7	0.2	0.1	0.1	
Transportation and material moving occupations																		
36 478	30 974	5 504	25 949	4 514	3 994	718	1 893	33.4	34.0	63.0	67.0	2.6	1.7	1.7	0.2	0.1	0.1	
10 630	10 131	499	8 477	422	1 338	54	639	37.7	37.7	58.3	70.1	2.4	4.4	4.4	0.5	—	—	
10 392	9 941	451	8 298	387	1 327	41	639	37.6	37.6	58.2	69.0	2.1	4.9	4.9	0.5	—	—	
9 337	9 004	333	7 569	283	1 172	27	510	37.2	37.2	57.5	63.7	1.8	3.9	3.9	0.4	—	—	
Truck drivers																		
171	142	29	122	29	4	—	20	38.0	41.1	73.9	51.7	4.2	31.0	31.0	—	—	—	
Driver-sales workers																		
884	795	89	607	75	151	14	109	41.5	31.2	63.6	94.4	4.4	—	—	0.8	—	—	
Other motor vehicle operators																		
238	190	48	179	35	11	13	—	41.7	38.0	63.7	81.3	19.5	—	—	1.1	—	—	
Rail and water transportation occupations																		
25 848	20 843	5 005	17 472	4 092	2 656	664	1 254	32.7	32.7	65.3	66.7	2.7	1.4	1.4	0.1	0.1	0.1	
694	643	51	628	51	—	—	16	46.5	39.9	95.3	62.7	23.8	13.7	13.7	—	—	—	
1 687	1 593	94	1 311	61	242	33	77	39.1	39.1	39.0	81.9	1.0	—	—	—	—	—	
107	71	36	36	36	—	—	—	40.4	33.2	38.0	36.1	—	—	—	—	—	—	
23 360	18 536	4 824	15 462	3 944	2 414	631	1 161	39.2	32.0	64.8	66.7	2.1	1.3	1.3	0.1	0.1	0.1	
Other material moving equipment operators																		
67 387	36 102	31 285	29 140	25 364	4 530	3 960	3 864	36.1	31.1	62.4	55.6	2.5	0.9	0.9	0.1	0.1	0.1	
Handlers, equipment cleaners, helpers, and laborers																		
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.																		
212	157	55	157	39	—	2	6	32.8	41.1	85.4	87.3	31.8	—	—	—	—	—	
2 614	2 013	601	1 621	460	233	112	299	30.7	30.7	60.9	66.6	2.1	2.7	2.7	—	—	—	
Helpers, craft and production																		
18 296	11 014	7 282	9 328	5 983	1 138	939	836	31.0	31.0	88.9	54.9	5.5	2.4	2.4	0.2	0.2	0.2	
Construction laborers																		
Freight, stock, and material handlers																		
Garage and service station occupations, and equipment cleaners																		
1 572	899	673	695	573	132	46	88	30.2	35.9	59.3	59.6	2.2	—	—	—	—	—	
20 223	7 553	12 670	5 790	10 471	1 062	1 438	1 225	38.8	29.3	60.6	52.8	2.1	1.0	1.0	0.1	0.1	0.1	
24 189	14 267	9 922	11 355	7 756	1 960	1 403	1 410	34.6	32.1	63.3	58.1	3.0	0.8	0.8	0.1	0.1	0.1	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

United States	Motor vehicles and motor vehicle equipment																
	Race				Spanish origin ^a		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed				
	Total		White		Black												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female			
Employed persons 16 years and over	1 171 123	957 886	213 237	806 934	167 632	123 947	39 669	39 616	8 015	39.0	36.2	71.1	71.7	10.5	5.0	0.4	0.2
Managerial and professional specialty occupations	128 413	114 723	13 690	107 960	12 031	4 424	1 359	1 413	225	41.2	34.6	96.0	96.1	52.3	35.0	1.1	0.8
Executive, administrative, and managerial occupations	69 394	60 428	8 966	57 278	7 937	2 316	867	894	154	41.8	35.0	94.0	94.9	48.6	29.9	1.8	1.0
Officials and administrators, public administration																	
Financial managers	2 325	2 058	267	1 985	247	42	12	23		30.0	34.9	100.0	95.1	71.7	15.7	0.6	
Managers, marketing, advertising, and public relations	6 393	6 195	13	6 062	385	75	13	43	19	41.6	34.1	97.2	91.2	49.7	30.2	0.7	0.5
Administrators, education and related fields	44	31	7	31	7		6			38.9	30.0	100.0	100.0	51.6	53.8		
Managers, medicine and health	3 559	3 021	538	2 850	487	134	45			41.7	37.6	95.9	95.7	58.0	31.2	0.5	
Other specified managers	31 385	29 000	2 185	27 905	2 077	866	97	551	5	43.1	41.2	91.4	88.9	42.3	19.0	3.3	3.0
Managers and administrators, n.e.c.	30 283	28 002	2 061	26 959	1 948	866	97	536	37	43.1	40.6	92.0	88.6	43.3	16.3		
Solated	1 102	978	124	946	124			15		45.3	49.6	75.6	93.5	13.2	30.6	97.4	52.4
Self-employed	25 501	19 936	5 565	18 438	4 739	1 199	694	213	93	39.3	33.3	96.0	93.7	53.7	34.7	0.4	0.4
Management related occupations	12 234	9 066	3 168	8 450	2 634	391	423	108	52	37.9	32.4	98.2	97.1	64.3	42.4	0.1	0.3
Accountants and auditors	5 778	4 640	1 138	4 121	962	475	164	50	24	40.2	35.7	92.3	96.9	45.9	27.4	0.2	0.4
Personnel, training, and labor relations specialists	4 774	3 870	904	3 681	853	172	51	49	17	40.6	34.6	96.5	98.8	40.4	14.7	0.8	0.9
Buyers and purchasing agents	358	347	11	253	11	94		6		44.1	25	70.0	100.0	11.5			
Inspectors and compliance officers	2 357	2 013	344	1 933	279	67	56			41.7	31.7	98.0	99.1	56.5	42.2	1.7	
Other management related occupations																	
Professional specialty occupations	59 019	54 295	4 724	49 682	4 094	2 108	492	519	71	40.6	33.8	98.2	98.4	56.5	44.7	0.2	0.5
Engineers, architects, and surveyors	43 994	42 382	1 612	39 486	1 350	1 604	199	376	20	40.5	29.3	98.7	97.8	59.7	55.7	0.1	
Architects	94	86	8	8				4		47.6	30.0	100.0	100.0	89.5	100.0	0.1	
Engineers	43 886	42 282	1 604	39 386	1 342	1 604	199	372	20	40.5	29.3	98.6	97.8	59.6	55.5		
Civil engineers	531	528	3	500	3	18		10		45.1	30.0	95.1	100.0	50.0			
Electrical and electronic engineers	2 062	2 013	49	1 867	49	49		47		35.6	25	99.3	100.0	71.0	55.1		
Industrial engineers	10 223	9 550	673	9 041	599	361	63	103	8	40.7	30.2	98.3	99.1	48.5	43.1	0.1	
Mechanical engineers	26 553	25 860	693	24 020	553	994	111	180	12	40.7	28.8	98.8	96.7	62.5	64.2	0.2	
Other engineers	4 517	4 331	186	3 938	138	182	25	32		40.6	28.8	98.7	96.8	62.9	68.8	0.1	
Surveyors and mapping scientists		14		14						43.8		100.0		57.1			
Computer systems analysts and scientists	2 474	2 135	339	2 010	273	67	55	13	7	36.5	31.8	99.2	98.5	57.4	54.0	0.1	
Operations and systems researchers and analysts	1 437	1 177	260	1 122	228	21	32	8		40.0	31.8	99.2	100.0	56.8	57.3		
Mathematical scientists	478	339	139	299	128	21	5			41.6	43.6	100.0	100.0	64.0	17.3		
Natural scientists	871	749	122	681	101	749	39	16	8	40.6	33.9	99.2	98.4	70.5	62.3	0.9	
Chemists, except biochemists	677	569	108	513	87	39	8	9	8	40.4	33.1	100.0	100.0	70.1	70.4	1.2	
Other natural scientists	194	180	14	168	14			7		41.9	59.4	96.7	85.7	71.7			
Health diagnosing occupations	157	137	20	129	10	3	10	15		57.0	40.0	100.0	100.0	90.5	100.0		
Health assessment and treating occupations	1 290	103	187	92	110		77		2	39.8	49.2	95.1	99.8	35.0	16.0		
Registered nurses	1 251	75	1176	64	1 099	11	77		2	42.9	49.1	100.0	99.8	24.0	15.6		
Other health assessment and treating occupations	39	28	11	28	11					36.0	55.8	82.1	100.0	64.3	54.5		
Teachers, except postsecondary	464	405	59	381	47	22	6	18		44.2	40.3	82.0	91.5	15.6	39.0	2.5	
Social scientists and urban planners	31	613	188	548	150	49	22		16	40.1	27.8	100.0	100.0	76.3	82.4		
Social and recreation workers	301	11	20	11					5	47.1	57.3	100.0	75.0		35.0		
Lawyers and judges	736	65	85	641	65	10		8		39.5	30.8	94.6	94.1	98.6	94.1	0.8	
Writers, artists, entertainers, and athletes	6 132	5 539	613	5 241	543	214	58	65	13	42.4	31.3	98.6	97.2	25.1	42.9	0.8	3.8
Other professional specialty occupations	134	54	80	41	74	13				38.4	40.0	100.0	96.3	27.8	35.0		
Technical, sales, and administrative support occupations	149 759	88 061	61 698	79 549	54 500	6 655	5 845	2 482	1 740	39.7	34.9	84.8	91.0	17.2	6.0	0.6	0.4
Technicians and related support occupations	22 509	20 031	2 478	18 570	2 187	1 060	208	387	37	37.8	29.8	94.6	91.7	19.1	24.7	0.2	
Health technologists and technicians	22 255	151	104	142	89	4	15	10		36.4	40.4	95.4	100.0	39.1	11.5		
Licensed practical nurses		8	62	8	47					40.0	46.0	100.0	100.0				
Other health technologists and technicians	185	143	42	134	42	4				35.8	30.6	95.1	100.0	41.3	28.6		
Engineering and science technicians	17 067	15 726	1 341	14 599	1 180	856	124	297	26	38.9	29.6	94.4	86.6	14.7	13.7	0.1	
Electrical and electronic technicians	31 362	1 121	33	1 255	88	91	53	20		33.7	33.1	94.3	94.3	3.6	12.4		
Industrial and mechanical engineering technicians	2 826	2 743	83	2 598	76	102	7	43		42.4	30.8	96.1	81.9	35.4	25.3		
Drafting and surveying technicians	8 063	7 484	579	6 933	544	390	24	208	18	38.9	29.5	95.5	89.6	8.3	8.5	0.1	
Other engineering and science technicians	4 695	4 137	538	3 813	472	273	60	86		38.4	29.5	91.4	84.4	16.0	17.7	0.2	
Technicians, except health, engineering, and science	5 187	4 154	1 033	3 829	918	200	69	80	11	34.4	29.5	95.3	97.5	35.4	40.4	0.4	
Airplane pilots and navigators		126		126				5		42.5		92.9		34.9			
Air traffic controllers and broadcast equipment operators		38	13			6				48.3	33.1	68.4		45.4		0.3	
Computer programmers	2 551	2 173	778	2 951	32	13		32		100.0		100.0		98.2		0.3	
Other technicians, except health, engineering, and science	2 059	1 817	242	1 629	222	117	7	37	11	33.7	31.7	91.4	95.0	25.2			

Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Motor vehicles and motor vehicle equipment											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Black		Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.												
Sales occupations	16 019	14 475	13 703	1 354	429	145	462	34	38 8	33 6	89 4	82 6
Supervisors and proprietors, sales occupations	2 357	2 246	1 111	97	109	6	46	—	40 8	41 6	90 0	86 5
Salaried	2 244	2 159	1 081	79	109	6	41	—	40 4	37 8	90 6	91 8
Self-employed	113	87	32	18	—	—	5	—	50 5	55 0	75 9	69 2
Sales representatives, finance and business services	9 913	9 177	736	13	—	—	—	—	39 4	32 3	100 0	53 8
Sales representatives, commodities, except retail	3 570	2 892	678	582	244	60	287	34	39 4	32 3	90 6	86 8
Sales workers, retail and personal services	3 517	2 892	678	582	244	60	129	34	34 8	34 4	85 1	77 9
Cashiers	3 053	2 800	253	221	49	26	123	6	38 7	41 2	79 3	74 8
Other sales occupations, retail and personal services	88	82	82	—	—	—	—	—	34 7	27 9	85 3	83 0
Sales related occupations	53 555	47 276	50 959	5 166	5 492	1 669	1 633	1 669	40 7	35 3	79 9	91 2
Administrative support occupations, including clerical	8 324	6 856	6 335	1 288	444	122	98	63	42 2	40 0	93 5	89 0
Supervisors, administrative support occupations	4 455	2 305	2 046	1 751	198	341	71	33	35 5	32 4	95 3	95 0
Computer equipment operators	23 788	21 461	20 453	243	18	434	—	—	41 3	35 0	92 3	95 1
Secretaries, stenographers, and typists	3 074	2 920	132	2 436	22	431	—	—	41 0	35 0	94 3	95 6
Stenographers and typists	990	27	963	20	891	7	—	—	42 6	34 8	89 0	91 8
Receptionists	352	142	210	132	7	47	60	60	47 5	33 0	100 0	90 7
Other information clerks	2 517	926	1 422	768	18	39	32	47	42 3	31 7	78 9	86 7
File clerks	3 285	1 658	1 627	1 320	259	244	97	65	40 2	34 2	79 9	79 7
Other records processing occupations, except financial	7 320	5 938	5 473	382	79	328	33	175	36 7	36 7	94 1	92 2
Bookkeepers, accounting, and auditing clerks	2 359	839	1 520	774	46	109	34	30	40 8	38 9	93 0	90 7
Postal and mailkeeping clerks	1 295	371	924	363	8	807	—	—	40 5	34 7	90 9	86 5
Other fiscal records processing occupations	580	29	498	22	22	51	—	—	29 3	24 1	75 9	71 2
Telephone operators	10 716	8 348	7 500	308	510	203	154	24	31 7	28 8	80 0	76 2
Mail and message distributing occupations	8 402	7 031	5 892	1 208	835	139	386	38	41 1	35 7	80 7	78 5
Production coordinators and appliers	14 825	12 452	10 775	1 957	1 369	315	490	25	34 1	32 1	65 8	74 5
Traffic, shipping, and receiving clerks	1 372	1 088	705	207	146	57	44	25	39 5	34 4	75 7	72 5
Stock and inventory clerks	2 286	1 581	1 453	589	111	92	48	15	39 7	37 2	89 8	91 2
Other material recording, scheduling, and distributing clerks	3 433	2 13	2 12	812	32	479	13	134	37 1	33 7	84 0	89 8
Adjusters and investigators	13 805	6 613	5 959	6 252	562	761	133	273	41 8	35 3	88 3	90 2
Data-entry keyers	32 601	28 509	22 474	2 774	5 357	1 209	1 104	132	44 4	42 5	56 4	62 9
Other administrative support occupations	7 830	7 357	6 324	325	925	143	93	5	—	—	—	—
Private household occupations	7 023	6 550	5 602	842	83	143	91	5	46 1	32 0	76 1	92 0
Protective service occupations	807	807	722	—	—	—	2	—	46 8	32 0	75 7	92 0
Guards	24 771	21 152	16 155	2 449	4 432	1 066	1 011	127	43 8	44 4	49 5	59 0
Other protective service occupations	921	234	687	155	75	514	15	17	47 9	47 9	53 0	55 0
Food preparation and service occupation	176	83	93	66	10	27	—	—	48 7	48 7	61 4	93 5
Health service occupations	23 369	20 648	15 776	1 781	4 306	861	996	110	44 0	42 6	49 2	59 1
Cleaning and building service occupations, except household	305	187	118	88	41	24	—	—	40 5	49 6	73 8	54 2
Personal service occupations	402	367	35	29	39	6	7	—	34 2	34 2	70 8	74 3
Farming, forestry, and fishing occupations	250 504	85 229	213 903	8 339	20 637	1 998	8 145	463	41 5	36 8	74 2	68 3
Precision production, craft, and repair occupations	85 229	82 599	71 347	2 051	8 798	525	3 596	134	40 2	35 0	65 0	61 1
Mechanics and repairers	956	931	854	25	47	—	22	—	41 0	33 9	76 6	100 0
Supervisors, mechanics and repairers	32 410	31 099	25 373	1 030	4 329	252	2 120	78	37 2	36 5	60 9	37 2
Automobile mechanics, including body	17 895	17 644	16 032	207	1 378	44	310	27	41 7	34 8	72 1	71 7
Industrial machinery repairers	793	722	586	60	85	11	32	18	39 8	35 2	87 3	88 7
Electronic repairers, communications and industrial equipment	647	642	556	5	80	—	6	—	43 2	30 0	69 6	100 0
Heating, air conditioning, and refrigeration mechanics	32 528	31 561	27 946	724	2 879	218	1 106	11	41 7	33 8	64 2	60 7
Other mechanics and repairers	30 372	29 555	26 695	658	2 320	141	878	26	41 3	32 0	75 8	69 6
Construction trades	2 463	2 091	1 913	83	117	13	86	13	42 0	30 4	80 4	100 0
Supervisors, construction occupations	14 931	14 635	13 467	252	93	38	34	6	40 9	30 6	59 6	52 1
Carpenters	2 990	2 751	2 362	185	437	38	196	7	46 9	36 5	84 6	89 4
Electricians	8 294	8 239	7 515	33	631	22	143	32	32 7	32 7	53 3	58 3
Painters, construction and maintenance	1 307	1 180	979	101	162	19	100	6	36 8	33 1	55 5	77 2
Plumbers, pipefitters, and steamfitters	—	—	—	—	—	—	—	—	—	—	—	—
Other construction trades	—	—	—	—	—	—	—	—	—	—	—	—
Other construction trades	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Motor vehicles and motor vehicle equipment													
	Race				Spanish origin¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female
	Male	Female	Male	Female	Male	Female								
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con														
Extrusive occupations -----														
Precision production occupations -----														
Supervisors, production occupations -----														
Precision metalworking occupations -----														
Food and die makers -----														
Mechanics -----														
Sheet metal workers -----														
Other precision metal workers -----														
Precision textile, apparel, and furnishings machine workers -----														
Precision food production occupations -----														
Precision inspectors, testers, and related workers -----														
Plant and system operators -----														
Other precision production occupations -----														
Operators, fabricators, and laborers -----														
Machine operators, assemblers, and inspectors -----														
Machine operators and tenders, except precision -----														
Metalworking and plastic working machine operators -----														
Fabricating machine operators, n.e.c. -----														
Metal and plastic processing and woodworking machine operators -----														
Printing machine operators -----														
Textile machine operators -----														
Textile sewing machine operators -----														
Laundry and dry cleaning machine operators -----														
Packaging and filling machine operators -----														
Furnace, kiln, and oven operators, except food -----														
Other specified machine operators -----														
Miscellaneous and not specified machine operators -----														
Fabricators, assemblers, and hand working occupations -----														
Welders and others -----														
Soldiers and armorers -----														
Assemblers -----														
Hand working occupations -----														
Production inspectors, testers, samplers, and weighers -----														
Graders and sorters, except agricultural -----														
Other production inspectors, testers, samplers, and weighers -----														
Transportation and material moving occupations -----														
Transportation occupations -----														
Motor vehicle operators -----														
Truck drivers -----														
Driver-sales workers -----														
Other motor vehicle operators -----														
Rail and water transportation occupations -----														
Material moving equipment operators -----														
Supervisors, material moving equipment operators -----														
Crane, hoist and winch operators -----														
Excavating, grading, and dozer machine operators -----														
Other material moving equipment operators -----														
Handlers, equipment cleaners, helpers, and laborers -----														
Supervisors, handlers, equipment cleaners, and laborers, n.e.c. -----														
Helpers, craft and production -----														
Construction laborers -----														
Freight, stock, and material handlers -----														
Garage and service station occupations, and equipment cleaners -----														
Hand packers and packagers -----														
Laborers, except construction -----														

Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States														
Aircraft, space vehicles, and parts														
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over	825 464	646 222	575 082	150 319	38 004	18 243	36 951	12 600	42.5	37.1	85.3	82.3	27.1	9.1
Managerial and professional specialty occupations	244 149	219 155	204 170	21 928	5 106	1 608	5 597	941	45.4	36.0	98.1	96.8	62.9	34.9
Executive, administrative, and managerial occupations	82 398	69 055	65 453	11 710	1 805	914	1 822	591	46.5	36.8	96.8	96.4	58.1	28.1
Officials and administrators, public administration	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Financial managers	2 748	2 420	2 326	298	29	12	55	21	44.6	38.4	98.2	97.6	72.8	38.1
Managers, marketing, advertising, and public relations	2 643	2 518	2 442	125	17	6	43	3	46.4	38.1	98.3	87.2	67.4	24.0
Administrators, education and related fields	100	94	88	—	—	—	—	—	48.0	30.0	100.0	100.0	55.3	—
Managers, medicine and health	6 587	5 465	5 132	996	231	85	193	53	46.3	38.9	98.0	97.1	62.1	32.9
Other specified managers	37 718	33 164	31 166	3 185	675	166	902	212	48.1	39.9	96.5	94.3	57.7	24.3
Managers and administrators, n.e.c.	40 848	37 401	35 856	3 116	675	166	874	212	48.1	40.0	96.6	94.0	58.1	24.6
Salaries	386	317	308	69	—	—	28	—	44.1	39.1	82.6	88.4	16.1	8.7
Self-employed	29 081	20 840	19 301	7 101	853	645	629	302	42.1	35.0	96.8	97.3	66.7	35.0
Management related occupations	10 852	7 094	6 546	2 278	250	119	224	137	39.8	34.7	98.7	97.9	54.8	28.8
Accountants and auditors	3 500	3 369	3 104	1 119	266	160	170	81	43.9	35.6	94.6	98.2	69.9	32.0
Personnel, training, and labor relations specialists	8 998	6 972	6 578	1 777	260	156	165	70	41.7	34.7	96.2	95.9	46.7	21.4
Buyers and purchasing agents	4 607	3 545	3 284	42	23	—	14	—	51.7	28.8	87.8	83.3	42.7	25.4
Inspectors and compliance officers	3 755	2 709	2 549	885	54	74	56	14	43.6	36.7	98.3	97.1	65.5	—
Other management related occupations	161 751	150 100	138 717	10 218	3 301	694	3 775	350	44.8	34.9	98.7	97.2	66.7	35.0
Professional specialty occupations	129 596	124 908	115 516	4 068	2 468	316	3 069	118	45.2	33.2	98.9	97.2	65.1	42.6
Engineers, architects, and surveyors	118	111	89	7	—	—	—	—	45.7	30.0	100.0	100.0	67.4	49.8
Engineers	129 466	124 785	115 415	4 061	2 468	316	3 069	118	45.2	33.2	98.9	97.2	67.4	49.8
Civil engineers	2 078	2 078	1 882	50	43	15	42	5	41.1	25.1	99.5	100.0	85.9	80.0
Electrical and electronic engineers	17 198	16 904	15 423	237	441	20	414	10	42.9	26.8	99.6	98.0	78.5	75.2
Industrial engineers	19 141	17 762	16 769	1 265	478	57	374	27	46.0	34.0	96.7	94.3	38.8	30.7
Mechanical engineers	8 010	7 454	7 136	127	136	5	173	—	44.0	30.2	99.2	100.0	67.7	41.0
Other engineers	82 830	80 031	73 887	2 382	1 370	219	2 066	76	45.7	33.9	99.3	98.4	70.9	56.3
Surveyors and mapping scientists	12	12	12	—	—	—	—	—	56.4	—	100.0	—	—	—
Computer systems analysts and scientists	7 998	6 249	5 747	1 443	196	54	149	61	37.4	33.1	99.0	98.3	66.8	43.6
Operations and systems researchers and analysts	5 014	4 007	3 785	899	93	44	142	36	44.8	37.5	97.2	95.3	44.9	28.1
Mathematical scientists	2 086	1 813	1 776	534	66	25	38	7	42.1	32.2	99.2	100.0	83.7	25.9
Natural scientists	1 167	1 086	991	62	66	12	13	—	41.0	31.4	98.1	100.0	82.5	59.7
Chemists, except biochemists	1 167	1 086	991	62	66	12	13	—	41.0	31.4	98.1	100.0	75.1	67.2
Other natural scientists	163	142	130	16	6	—	6	—	48.5	45.5	99.3	100.0	84.0	42.0
Health diagnosing occupations	668	30	638	30	—	—	—	—	30.4	48.5	100.0	98.7	69.7	100.0
Health assessment and treating occupations	639	13	626	13	—	—	6	13	30.0	48.4	100.0	98.7	6.7	23.5
Registered nurses	29	17	12	12	—	—	6	13	30.7	50.0	100.0	100.0	11.8	22.0
Other health assessment and treating occupations	1 665	1 592	1 514	71	54	—	18	—	45.3	31.7	95.5	78.1	23.1	50.7
Teachers, except postsecondary	1 663	1 454	1 372	187	34	10	30	—	44.0	38.6	98.9	100.0	85.9	46.4
Social scientists and urban planners	1 663	1 454	1 372	187	34	10	30	—	44.0	38.6	98.9	100.0	85.9	46.4
Social and recreation workers	562	513	499	49	8	—	—	—	37.5	34.3	100.0	53.8	77.8	53.8
Lower and judges	9 866	7 859	7 190	1 818	313	78	274	86	42.9	32.7	100.0	100.0	97.3	87.8
Writers, artists, entertainers, and athletes	532	194	173	299	14	21	7	9	45.6	35.0	96.7	97.7	36.3	39.9
Other professional specialty occupations	185 964	97 642	86 893	77 068	5 787	6 898	5 005	4 804	40.1	36.4	91.0	91.5	53.6	32.5
Technical, sales, and administrative support occupations	51 581	43 862	39 512	6 619	1 800	492	1 954	397	39.5	33.2	94.5	92.2	20.8	7.0
Technicians and related support occupations	151	92	85	53	—	—	21	—	32.1	32.1	95.7	100.0	69.6	28.8
Health technicians and technicians	17	17	—	17	—	—	—	—	—	—	—	—	—	—
Licensed practical nurses	134	92	85	36	—	—	21	—	32.1	32.1	95.7	100.0	69.6	40.5
Other health technologists and technicians	34 915	30 402	27 520	3 973	1 339	276	1 360	238	40.5	34.3	93.7	88.9	14.5	15.6
Engineering and science technicians	10 674	9 891	8 805	680	552	49	419	78	39.7	39.3	93.9	74.5	8.1	6.9
Electrical and electronic technicians	2 138	1 990	1 854	140	71	3	41	29	44.8	37.8	92.4	77.0	29.1	28.4
Industrial and mechanical engineering technicians	11 276	9 525	8 522	1 540	394	103	539	49	39.0	32.8	96.3	95.3	14.8	17.4
Drafting and surveying technicians	10 827	8 996	8 339	1 613	322	121	361	82	42.2	34.1	91.0	89.9	17.9	16.5
Other engineering and science technicians	16 515	13 368	11 907	2 593	461	210	573	159	37.6	32.0	96.3	96.7	43.8	46.6
Technicians, except health, engineering, and science	1 198	1 168	1 144	30	10	—	11	14	44.0	36.7	96.1	63.3	40.2	—
Airplane pilots and navigators	117	99	92	18	7	—	—	—	54.0	65.4	86.9	88.9	15.2	—
Air traffic controllers and broadcast equipment operators	8 935	6 586	5 831	1 960	248	124	244	89	34.6	31.0	98.6	98.6	56.6	0.7
Computer programmers	6 265	5 515	4 840	585	196	86	318	56	40.4	35.0	93.8	92.3	25.4	18.1
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																		
Aircraft, space vehicles, and parts																		
Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed						
Total		White		Black		Male		Female		Male		Female		Male		Female		
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con																		
Technical, sales, and administrative support occupations—Con.																		
Sales occupations																		
Supervisors and proprietors, sales occupations																		
Salaries																		
Self-employed																		
Sales representatives, finance and business services																		
Sales representatives, commodities, except retail																		
Sales workers, retail and personal services																		
Cashiers																		
Other sales occupations, retail and personal services																		
Sales related occupations																		
Administrative support occupations, including clerical																		
Supervisors, administrative support occupations																		
Computer equipment operators																		
Secretaries, stenographers, and typists																		
Secretaries																		
Stenographers and typists																		
Receptionists																		
Other information clerks																		
File clerks																		
Other records processing occupations, except financial																		
Bookkeepers, accounting, and auditing clerks																		
Payroll and timekeeping clerks																		
Other financial records processing occupations																		
Telephone operators																		
Mail and message distributing occupations																		
Production coordinators and expeditors																		
Traffic, shipping, and receiving clerks																		
Stock and inventory clerks																		
Other material recording, scheduling, and distributing clerks																		
Adjusters and investigators																		
Data-entry keyers																		
Other administrative support occupations																		
Service occupations																		
Private household occupations																		
Protective service occupations																		
Guards																		
Other protective service occupations																		
Service occupations, except protective and household																		
Food preparation and service occupation																		
Health service occupations																		
Cleaning and building service occupations, except household																		
Personal service occupations																		
Farming, forestry, and fishing occupations																		
Precision production, craft, and repair occupations																		
Mechanics and repairers																		
Supervisors, mechanics and repairers																		
Automobile mechanics, including body																		
Industrial machinery repairers																		
Electronic repairers, communications and industrial equipment																		
Heating, air conditioning, and refrigeration mechanics																		
Other mechanics and repairers																		
Construction trades																		
Supervisors, construction occupations																		
Carpenters																		
Electricians																		
Painters, construction and maintenance																		
Plumbers, pipefitters, and steamfitters																		
Other construction trades																		

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Aircraft, space vehicles, and parts													
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con.														
Extraction occupations														
157	141	16	107	28	6	5	—	36.3	25.0	4.3	50.0	—	—	—
133 794	117 940	15 854	105 100	7 057	2 222	7 795	1 669	43.5	39.8	70.9	79.6	2.9	0.2	—
46 313	43 365	2 948	39 904	2 027	282	1 872	196	47.2	43.6	17.5	85.9	6.4	0.2	—
69 340	62 405	6 935	54 203	4 425	1 110	5 120	659	39.4	35.2	74.9	77.6	3.2	0.2	—
11 383	11 099	284	10 341	424	36	460	15	43.6	35.2	2.1	89.1	3.2	0.2	—
30 166	28 973	1 193	25 010	885	178	2 454	120	37.6	31.8	74.9	64.8	3.1	0.2	—
12 160	9 841	2 319	8 602	1 911	306	856	86	40.8	33.7	70.2	63.9	1.5	0.1	—
969	528	441	463	381	45	1 350	438	38.3	38.8	74.4	63.9	1.7	0.4	—
15 631	12 492	3 139	10 250	2 184	590	94	55	33.3	41.3	61.2	58.5	2.9	1.3	—
191	132	59	111	14	26	—	—	33.4	48.6	74.2	50.8	21.2	0.2	—
8 012	6 556	1 456	6 111	208	179	141	141	46.7	42.0	85.3	71.6	4.7	0.4	—
1 895	1 780	115	1 624	104	6	76	—	46.4	38.6	83.7	94.8	26.4	—	—
7 074	3 174	3 900	2 684	2 851	574	292	613	39.2	43.0	76.6	62.9	4.1	0.5	—
Operators, fabricators, and laborers														
187 545	144 052	43 493	121 112	13 959	6 326	13 707	4 670	37.5	38.0	3.2	71.1	1.7	0.1	—
169 883	129 091	40 792	109 002	12 024	5 877	12 500	4 335	37.7	38.2	3.2	63.6	3.2	0.1	—
83 259	67 240	16 019	56 169	6 586	2 420	7 026	1 746	36.2	37.4	2.6	68.7	3.8	0.1	—
31 537	26 798	4 739	23 502	1 962	728	2 138	439	36.7	36.7	2.5	69.8	2.5	0.1	—
2 909	2 378	531	1 986	198	91	207	—	33.1	43.7	2.9	68.7	—	0.3	—
Metal and plastic processing and woodworking machine operators														
5 106	4 668	438	3 668	622	78	604	92	35.0	35.4	2.2	61.9	2.2	0.2	—
1 397	893	504	782	89	95	36	35	36.6	37.9	0.9	91.2	3.2	0.2	—
367	191	176	159	148	6	47	6	38.1	40.4	7.0	72.7	4.0	0.7	—
722	86	636	74	447	72	—	83	41.3	40.7	—	74.4	—	—	1.9
Textile and dry cleaning machine operators														
7	—	7	—	7	—	—	—	—	—	—	100.0	—	—	—
Packaging and filling machine operators														
102	60	42	60	—	—	—	—	50.0	47.2	—	46.7	—	—	—
1 456	1 323	133	1 121	128	22	142	6	40.9	40.2	2.6	74.0	58.6	—	—
9 537	7 379	2 158	6 055	1 690	289	874	218	35.7	37.4	2.8	66.3	1.7	0.1	—
30 119	23 464	6 655	18 762	4 998	1 025	2 978	867	35.8	36.8	2.7	68.2	2.1	0.2	—
Miscellaneous and not specified machine operators														
55 624	37 866	17 758	31 009	4 210	2 487	4 131	2 136	36.4	38.8	2.4	69.4	1.4	0.1	—
9 510	8 451	1 099	7 085	803	237	764	117	37.2	35.2	1.1	69.7	3.2	0.3	—
41	133	115	115	611	113	25	66	25	34.5	64.7	63.9	—	—	—
44 167	28 679	15 488	23 312	3 345	2 114	3 273	1 910	36.2	39.1	2.7	69.3	1.3	0.1	—
989	603	386	497	328	65	69	43	35.3	43.0	5.5	50.8	2.1	—	—
31 000	23 985	7 015	21 824	5 657	23	970	453	44.2	38.6	6.2	84.1	70.1	0.1	—
182	66	116	66	88	28	13	8	45.0	36.8	—	65.5	—	—	—
Other production inspectors, testers, samplers, and weighers														
30 818	23 919	6 899	21 758	1 228	942	980	445	44.2	38.7	6.2	70.2	2.6	0.1	—
Transportation and material moving occupations														
7 805	7 264	541	5 920	941	96	710	43	39.4	33.2	2.7	63.2	2.7	—	—
3 137	2 950	187	2 295	447	16	341	5	40.1	34.1	1.6	62.1	1.6	—	—
3 070	2 897	173	2 248	441	16	320	5	40.1	34.8	1.6	62.0	1.6	—	—
2 581	2 467	114	1 873	398	7	303	5	38.8	38.7	1.9	61.6	1.9	—	—
Truck drivers														
84	67	17	61	6	—	—	—	44.6	36.5	73.1	58.8	—	—	—
Driver-sales workers														
405	363	42	314	33	9	17	—	45.7	26.9	—	63.1	—	—	—
Other motor vehicle operators														
67	53	14	47	6	10	21	—	41.9	32.0	—	66.0	100.0	—	—
Rail and water transportation occupations														
4 668	4 314	354	3 625	494	70	369	38	38.8	32.7	3.5	64.0	75.1	3.1	—
Material moving equipment operators														
339	298	41	298	31	—	8	—	46.9	39.3	93.3	100.0	16.8	—	—
Supervisors, material moving equipment operators														
658	656	2	521	2	—	51	—	40.7	40.0	0.9	59.3	—	—	—
Crane, hoist and winch operators														
33	21	12	21	6	6	—	—	42.2	50.0	—	100.0	50.0	—	—
Excavating, grading, and dozer machine operators														
3 648	3 339	309	2 785	223	64	310	38	37.5	31.3	2.8	62.7	72.2	—	—
Other material moving equipment operators														
9 857	7 697	2 160	6 190	1 663	353	847	292	32.8	35.3	3.2	56.7	0.9	—	—
Handlers, equipment cleaners, helpers, and laborers														
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.														
39	39	—	39	—	—	—	—	46.9	—	—	76.9	—	—	—
1 024	784	240	617	176	54	138	17	25.8	37.7	0.6	60.3	63.8	—	—
Helpers, craft and production														
224	186	38	164	27	28	—	—	32.8	31.0	10.2	47.4	—	—	—
Construction laborers														
1 274	1 044	230	894	161	28	98	33	32.7	29.6	5.5	73.9	71.3	0.9	—
Freight, stock, and material handlers														
Garage and service station occupations, and equipment cleaners														
564	477	87	329	62	10	44	15	32.9	42.2	2.5	58.1	67.8	—	—
1 778	1 178	651	921	178	95	112	118	38.0	35.9	2.5	70.4	57.7	—	—
4 903	3 989	914	3 226	709	166	455	91	33.0	37.5	3.1	65.8	57.2	0.1	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Other transportation equipment										Percent completed 4 or more years of college				Percent self-employed	
	Race										Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Black		Male		Female		Male	Female	Male	Female	Male	Female
United States																
Employed persons 16 years and over	431 865	377 095	54 770	308 560	44 884	48 868	7 845	23 905	2 651	34.8	33.6	77.4	8.8	5.7	1.4	0.8
Managerial and professional specialty occupations	46 956	41 723	5 233	39 042	4 740	1 345	349	974	135	40.8	36.0	93.5	44.1	22.2	2.6	1.5
Executive, administrative, and managerial occupations	25 392	21 447	3 945	20 522	3 590	490	239	556	93	41.6	36.4	93.8	40.0	17.5	4.2	2.0
Officials and administrators, public administration	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Financial managers	704	572	132	546	127	22	—	4	—	36.9	34.6	97.4	57.5	4.5	—	—
Managers, marketing, advertising, and public relations	1 461	1 177	117	1 344	73	—	—	7	—	37.6	38.6	97.1	52.6	7.7	1.1	—
Administrators, education and related fields	—	73	—	73	—	—	—	—	—	41.5	—	100.0	15.1	—	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	1 598	1 309	289	1 223	275	47	7	57	—	41.5	34.7	93.7	47.2	15.9	—	—
Managers and administrators, n.e.c.	13 829	12 336	1 493	11 918	44	171	44	334	18	43.2	38.6	90.4	35.2	13.9	6.8	5.0
Salaries	12 824	11 461	1 363	11 068	282	157	44	321	9	43.3	38.4	93.3	36.2	13.7	—	—
Self-employed	1 005	875	130	850	130	14	—	13	9	41.4	40.3	76.2	22.1	16.2	96.3	56.9
Management related occupations	7 727	5 813	1 914	5 447	666	236	188	154	70	39.4	34.9	93.9	44.0	22.0	0.6	0.3
Accountants and auditors	2 914	2 119	795	1 971	663	77	77	74	27	37.2	34.6	96.9	64.8	31.2	0.7	—
Personnel, training, and labor relations specialists	1 473	1 046	427	945	369	95	46	28	—	40.2	36.0	93.7	28.9	17.3	0.6	—
Buyers and purchasing agents	2 326	1 792	534	1 712	506	51	28	38	19	40.3	35.0	95.5	36.2	12.2	—	—
Inspectors and compliance officers	391	361	30	331	16	6	—	7	—	41.3	30.0	85.9	12.2	—	—	—
Other management related occupations	623	495	128	488	112	7	—	7	24	42.6	37.5	90.7	38.2	27.3	3.0	3.9
Professional specialty occupations	21 564	20 276	1 288	18 520	1 150	855	110	418	42	39.9	34.6	96.5	48.4	36.6	0.9	—
Engineers, architects, and surveyors	15 859	15 551	308	14 319	273	483	24	348	15	40.0	30.6	95.8	53.8	42.2	0.5	—
Architects	199	199	—	—	—	—	—	—	—	36.7	—	—	54.8	—	—	—
Engineers	15 632	15 330	302	14 129	267	464	24	340	15	40.1	30.6	95.7	53.9	43.0	0.5	—
Civil engineers	487	487	—	456	—	—	—	—	—	35.1	—	—	82.8	—	—	—
Electrical and electronic engineers	1 719	1 692	27	1 552	23	49	—	13	—	39.9	30.3	99.1	64.0	63.0	—	—
Industrial engineers	3 353	3 240	113	2 993	101	151	12	53	9	39.3	31.6	98.5	30.9	24.8	—	—
Mechanical engineers	2 814	2 774	40	2 549	40	71	—	78	—	40.5	26.5	98.3	61.6	85.0	—	—
Other engineers	7 259	7 137	122	6 579	103	193	12	174	6	40.6	29.9	96.9	57.0	41.8	1.1	—
Surveyors and mapping scientists	28	22	6	22	6	—	—	—	—	45.0	30.0	100.0	—	—	—	—
Computer systems analysts and scientists	546	428	118	404	105	11	13	11	4	36.6	35.5	94.9	57.9	44.9	—	—
Operations and systems researchers and analysts	528	426	100	393	93	28	7	—	—	42.4	36.2	89.2	32.4	48.0	—	—
Mathematical scientists	93	68	25	51	25	5	—	—	—	38.4	34.4	100.0	32.4	56.0	—	—
Natural scientists	626	584	42	476	19	48	13	18	—	36.4	35.0	100.0	50.7	88.1	—	—
Chemists, except biochemists	312	280	32	206	9	44	13	8	—	37.2	35.0	100.0	67.1	100.0	—	—
Other natural scientists	314	304	10	270	10	4	—	10	—	39.2	35.0	100.0	65.1	50.0	—	—
Health diagnosing occupations	37	37	—	30	—	—	—	—	—	53.3	—	—	59.5	—	18.9	—
Health assessment and treating occupations	324	48	276	33	268	15	8	4	—	40.7	42.8	92.0	100.0	22.8	—	—
Registered nurses	305	34	271	26	263	9	8	4	—	32.7	42.6	91.9	100.0	21.4	—	—
Other health assessment and treating occupations	19	14	5	7	5	—	—	—	—	45.0	60.0	100.0	50.0	100.0	—	—
Teachers, except postsecondary	652	645	7	541	7	85	—	8	—	42.7	30.0	82.8	4.0	100.0	1.1	—
Social scientists and urban planners	141	98	43	98	43	—	—	—	—	41.2	37.0	100.0	86.7	67.4	6.1	—
Social and recreation workers	22	15	7	15	7	—	—	—	—	65+	60.0	100.0	—	—	—	—
Lawyers and judges	160	148	12	136	3	—	—	6	—	37.5	38.3	100.0	100.0	100.0	4.1	—
Writers, artists, entertainers, and athletes	2 465	2 160	305	1 971	262	153	36	23	23	39.4	32.0	83.9	20.6	19.3	3.3	—
Other professional specialty occupations	113	68	45	51	45	15	—	—	—	40.0	32.9	89.7	16.2	42.2	—	—
Technical, sales, and administrative support occupations	56 290	31 093	25 197	27 227	22 125	2 686	2 356	1 131	787	38.6	33.6	85.7	14.0	5.4	1.1	0.6
Technicians and related support occupations	11 818	10 586	1 232	9 437	1 041	546	121	463	49	37.9	33.2	92.2	14.7	20.8	0.5	0.6
Health technologists and technicians	295	195	100	149	82	23	13	32	10	30.9	37.6	100.0	28.7	5.0	—	—
Licensed practical nurses	64	43	51	—	38	13	5	13	5	30.0	40.2	100.0	30.8	—	—	—
Other health technologists and technicians	231	182	49	149	44	23	—	19	5	31.1	32.2	100.0	93.9	10.2	—	—
Engineering and science technicians	9 634	8 911	723	7 969	607	439	78	363	29	38.3	32.3	92.6	12.3	17.6	0.3	—
Electrical and electronic technicians	1 868	1 780	88	1 535	63	127	19	48	5	37.5	34.2	86.5	6.5	6.8	—	—
Industrial and mechanical technicians	326	303	23	267	23	32	—	24	—	38.2	32.2	87.5	29.4	43.5	—	—
Drafting and surveying technicians	3 947	3 536	411	3 199	352	152	27	208	14	31.7	31.7	93.3	12.8	15.6	0.4	—
Other engineering and science technicians	3 493	3 292	201	2 948	169	128	32	103	10	41.6	32.2	90.3	23.4	23.4	0.5	—
Technicians, except health, engineering, and science	1 889	1 480	409	1 319	352	84	30	68	10	36.7	33.7	88.7	27.5	30.3	1.2	2.0
Airplane pilots and navigators	69	45	6	59	6	—	—	—	—	36.8	50.1	100.0	27.0	—	—	—
Air traffic controllers and broadcast equipment operators	59	59	—	—	—	—	—	—	—	35.6	31.1	98.8	23.7	—	18.6	—
Computer programmers	804	597	209	529	180	23	16	28	2	38.8	31.1	95.5	38.0	35.9	0.9	—
Other technicians, except health, engineering, and science	955	761	194	677	166	61	14	40	8	39.9	37.1	82.4	18.8	25.3	—	4.1

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																
Other transportation equipment																
Race			Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed					
Total			White		Black		Male		Female		Male		Female		Male	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.																
Sales occupations	3 322	563	3 200	510	82	36	51	6	38.8	31.7	89.1	83.7	32.5	11.9	6.9	3.2
Supervisors and proprietors, sales occupations	443	52	426	47	10	—	—	—	39.5	40.6	84.4	61.5	22.3	—	12.2	—
Salaries	389	36	372	34	10	—	—	—	39.3	44.0	84.8	48.7	23.1	—	—	—
Self-employed	17	14	54	13	—	—	—	—	40.0	31.5	81.5	100.0	16.7	—	100.0	—
Sales representatives, finance and business services	2 515	406	2 438	389	50	11	45	—	39.3	30.8	100.0	87.2	36.4	15.8	6.1	4.4
Sales representatives, commodities, except retail	338	105	310	74	22	25	6	6	33.5	30.2	87.9	81.0	18.9	2.9	14.4	—
Sales workers, retail and personal services	443	338	310	74	22	25	6	6	33.5	30.2	87.9	81.0	18.9	2.9	14.4	—
Cashiers	129	59	50	39	9	25	6	6	32.1	28.4	87.8	77.1	17.6	8.6	2.9	—
Other sales occupations, retail and personal services	314	279	260	35	13	—	—	—	30.0	—	100.0	—	—	—	—	—
Sales related occupations	12	12	12	—	—	—	—	—	30.0	—	100.0	—	—	—	—	—
Administrative support occupations, including clerical	40 587	17 185	23 402	20 574	2 058	2 199	617	732	39.1	33.6	81.1	90.2	10.0	4.4	0.3	0.6
Supervisors, administrative support occupations	2 147	1 484	1 376	588	90	46	34	22	42.1	43.0	89.4	92.5	18.9	—	—	—
Computer equipment operators	1 143	526	607	537	54	43	14	34	37.5	43.0	90.9	92.7	11.4	3.5	4.5	—
Secretaries, stenographers, and typists	9 580	1 193	8 528	6 528	632	632	11	272	35.4	33.0	82.9	93.4	4.2	4.7	—	—
Secretaries	7 275	142	6 435	142	6 435	—	—	—	38.8	33.3	87.3	93.7	8.5	4.8	—	0.8
Stenographers and typists	2 305	51	2 254	46	1 893	—	11	47	25	32.0	86.3	92.7	4.6	—	—	0.3
Receptionists	345	11	334	1	315	—	—	—	29.3	29.3	100.0	92.8	—	—	—	—
Other nonproduction clerks	126	38	88	14	61	24	12	7	25.8	29.3	100.0	92.8	—	—	—	—
File clerks	944	432	512	378	358	42	93	21	43.6	31.5	88.4	93.2	6.7	8.0	—	—
Other records processing occupations, except financial	867	358	509	307	420	44	82	38	40.3	32.8	88.9	76.5	74.6	4.3	—	—
Bookkeepers, accounting, and auditing clerks	3 291	502	2 789	447	2 658	23	84	—	43.7	34.7	77.9	90.4	14.5	1.6	1.4	—
Payroll and timekeeping clerks	1 319	562	757	520	668	24	58	26	39.5	34.9	92.2	92.6	23.5	6.1	—	1.7
Other financial records processing occupations	330	118	212	108	197	10	11	—	37.7	34.3	91.5	87.6	13.5	5.8	—	—
Telephone operators	262	10	252	10	208	—	—	—	38.2	35.8	88.1	97.2	—	5.2	—	—
Mail and message distributing occupations	409	210	199	126	164	80	35	6	40.0	45.7	100.0	81.3	100.0	3.2	—	—
Production coordinators and expeditors	4 817	906	3 417	828	409	63	24	114	33.1	27.6	69.0	79.9	27.5	—	—	—
Traffic, shipping, and receiving clerks	2 021	1 739	282	211	255	27	116	15	33.8	31.7	82.3	88.9	10.0	3.5	0.1	—
Stock and inventory clerks	5 225	3 824	1 401	3 037	1 114	232	177	684	35.3	31.7	75.2	72.3	3.3	3.9	0.3	—
Other material recording, scheduling, and distributing clerks	268	188	152	63	23	17	15	6	36.7	34.7	72.4	80.5	5.3	2.1	—	—
Adjusters and investigators	421	248	173	248	137	9	9	9	40.8	48.7	77.7	60.0	11.7	—	—	—
Data-entry keyers	1 079	40	1 039	26	832	—	166	21	39.0	31.0	93.1	92.5	31.0	12.1	2.8	1.2
Other administrative support occupations	5 993	2 781	3 212	2 370	2 643	340	486	69	39.4	32.7	60.0	94.0	12.5	2.1	0.3	0.7
Service occupations	8 913	7 657	1 256	5 598	838	1 754	395	435	42.5	38.1	53.4	53.6	4.2	3.2	0.9	—
Private household occupations	3 229	3 082	147	2 629	128	402	13	105	46.3	29.8	63.2	67.3	—	19.7	—	—
Protective service occupations	2 516	2 395	121	2 039	102	321	13	93	48.4	30.7	58.9	71.1	4.8	24.0	—	—
Other protective service occupations	713	487	26	590	26	81	—	12	39.5	25	78.0	50.0	6.3	—	—	—
Service occupations, except protective and household	5 684	4 575	1 109	2 969	710	1 352	382	20	39.6	39.9	46.8	51.8	3.6	1.0	1.5	—
Food service occupations	359	202	157	96	100	89	52	6	38.8	47.2	37.6	45.2	—	—	—	—
Health service occupations	73	41	32	25	21	7	—	—	30.0	48.3	70.7	81.3	36.6	—	—	—
Cleaning and building service occupations, except household	5 120	4 237	883	2 774	567	1 242	304	324	39.5	37.7	46.7	51.3	3.2	1.2	1.6	—
Personal service occupations	132	95	37	79	18	19	—	—	42.5	34.5	61.1	64.9	15.8	—	—	—
Farming, forestry, and fishing occupations	276	225	51	150	23	66	25	—	32.7	33.9	49.8	58.8	—	—	8.0	—
Precision production, craft, and repair occupations	164 807	157 841	6 966	131 944	5 339	17 942	8 997	371	35.0	32.1	70.4	69.0	4.4	4.2	1.9	2.0
Mechanics and repairers	35 035	34 150	885	28 506	746	3 800	1 620	40	35.4	31.4	68.9	76.6	2.8	4.9	2.1	3.8
Supervisors, mechanics and repairers	1 430	1 399	31	1 277	27	63	80	4	45.9	34.4	77.1	64.5	4.1	—	2.6	12.9
Automobile mechanics, including body	1 109	1 071	38	930	24	81	39	3	33.9	33.3	67.0	92.1	2.1	—	4.8	—
Industrial machinery repairers	9 544	9 337	207	7 963	154	821	396	12	35.1	32.6	73.5	78.3	2.2	1.9	0.9	—
Electronic repairers, communications and industrial equipment	1 725	1 652	73	1 347	67	138	84	6	36.1	25	88.8	79.5	5.8	—	0.3	—
Heating, air conditioning, and refrigeration mechanics	378	378	—	283	—	33	36	—	33.2	—	77.5	75.2	3.2	—	—	—
Other mechanics and repairers	20 849	20 313	536	16 708	474	2 644	1 185	15	34.9	31.2	74.6	75.2	2.8	7.3	2.6	5.6
Construction trades	65 075	61 856	3 219	50 403	2 317	8 253	3 962	178	33.3	30.3	69.6	67.4	4.4	3.5	3.2	2.5
Supervisors, construction occupations	3 778	3 776	2	3 369	2	288	1 197	—	41.2	30.0	73.2	100.0	6.3	100.0	9.1	—
Carpenters	19 266	18 473	793	16 086	647	1 576	88	95	33.4	31.1	64.3	67.2	6.5	6.8	9.1	6.6
Electricians	13 300	12 760	540	10 726	449	1 274	580	12	33.4	32.2	80.8	78.5	4.3	2.1	0.4	—
Painters, construction and maintenance	5 678	5 162	516	3 272	259	1 544	495	28	33.1	29.6	73.2	50.8	2.1	2.9	2.7	4.8
Plumbers, pipefitters, and steamfitters	17 585	16 794	791	13 247	559	2 595	811	14	32.2	27.2	73.5	71.2	2.8	2.1	0.6	—
Other construction trades	5 468	4 891	577	3 703	401	976	280	29	32.0	31.0	63.2	66.9	2.8	2.8	0.7	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States												
Other transportation equipment												
Race												
Total			White		Black		Spanish origin ¹		Median age		Percent high school graduates	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con												
Precision production, craft, and repair occupations—Con.												
Extrusive occupations	179	2	125	2	48	—	4	—	30.3	30.0	49.2	100.0
Precision production occupations	64 518	2 860	52 908	2 274	5 841	458	3 211	153	37.5	34.7	72.0	68.5
Supervisors, production occupations	27 014	938	23 229	770	1 927	155	1 229	770	42.1	39.2	73.3	73.1
Precision metalworking occupations	33 228	1 239	26 671	895	3 602	268	1 694	60	33.3	31.7	71.7	71.8
Tool and die makers	1 887	52	1 672	38	128	14	59	—	43.5	30.4	73.6	86.5
Machinists	10 271	9 976	8 538	211	842	49	480	10	34.5	32.2	76.5	80.0
Sheet metal workers	4 823	4 605	3 738	161	529	45	323	12	33.1	31.3	73.6	71.6
Other precision metal workers	16 247	15 573	12 723	485	2 103	160	832	37	32.0	31.7	67.7	67.1
Precision textile, apparel, and furnishings machine workers	838	438	383	364	6	19	26	4	31.9	31.1	62.6	59.5
Precision food production occupations	64	2	56	2	6	—	9	—	36.0	50.0	62.9	—
Precision inspectors, testers, and related workers	1 009	948	832	36	71	10	25	15	35.8	33.4	75.3	55.7
Plant and system operators	903	871	795	32	57	—	36	—	42.9	34.4	72.2	62.5
Other precision production occupations	1 462	1 274	942	175	172	6	192	10	36.4	38.1	56.7	49.5
Operators, fabricators, and laborers	154 623	16 067	104 599	11 819	25 075	3 396	12 343	1 332	32.2	33.3	59.1	57.7
Machine operators, assemblers, and inspectors	122 046	108 826	82 910	10 039	18 303	2 555	10 473	1 045	31.9	33.5	60.4	58.1
Machine operators and tenders, except precision	36 905	5 234	24 674	4 103	4 977	874	3 151	406	32.8	34.5	58.1	56.0
Metalworking and plastic working machine operators	9 812	8 742	7 415	840	988	171	593	82	33.3	33.4	61.6	60.4
Fabricating machine operators, n.e.c.	586	490	406	85	42	5	52	6	34.6	45.0	69.4	56.3
Metal and plastic processing and woodworking machine operators	4 044	3 822	2 225	147	1 230	68	380	10	32.3	31.3	52.3	75.2
Printing machine operators	1 244	157	133	69	6	18	31	—	36.1	32.5	52.3	44.8
Textile machine operators	1 463	1 101	865	238	95	80	257	39	29.7	32.5	59.1	56.9
Textile sewing machine operators	551	35	50	455	—	39	—	45	35.4	42.4	58.2	35.0
Laundry and dry cleaning machine operators	11	5	—	—	5	—	—	—	40.0	40.0	—	—
Packaging and filling machine operators	125	87	40	14	47	13	9	6	39.0	37.8	41.4	78.9
Furnace, kiln, and oven operators, except food	688	669	537	19	106	—	34	—	33.3	32.3	64.7	68.4
Other specified machine operators	5 403	4 744	3 753	544	634	82	536	50	32.4	38.7	53.0	53.9
Miscellaneous and not specified machine operators	13 978	11 799	9 250	1 692	1 824	392	1 259	168	32.8	33.5	58.5	53.5
Fabricators, assemblers, and hand working occupations	76 456	69 241	51 186	5 321	12 686	1 536	7 051	599	31.0	32.5	59.2	59.0
Welders and cutters	53 768	51 550	37 222	1 406	10 391	736	4 679	79	30.9	30.7	60.0	64.7
Solders and brazers	155	87	68	50	—	11	64	7	39.4	33.0	46.0	42.6
Assemblers	18 520	14 076	11 432	3 596	1 471	601	1 990	484	30.4	34.2	57.4	56.8
Hand working occupations	4 013	3 528	2 456	269	824	188	318	29	35.0	29.7	56.2	55.9
Production inspectors, testers, samplers, and weighers	8 685	7 914	7 050	615	640	145	271	40	38.5	36.6	80.4	63.2
Graders and sorters, except agricultural	63	47	41	3	—	7	—	—	39.0	31.2	87.2	56.3
Other production inspectors, testers, samplers, and weighers	8 622	7 867	7 009	612	640	138	271	40	38.5	36.8	80.4	63.3
Transportation and material moving occupations	13 968	13 422	10 437	408	2 654	117	551	24	38.2	33.7	51.8	68.7
Transportation occupations	4 730	4 535	3 513	152	897	32	211	7	41.5	36.8	48.1	57.4
Motor vehicle operators	3 534	3 361	2 531	137	759	32	156	—	42.6	36.1	46.0	59.5
Truck drivers	3 135	3 013	2 274	86	673	32	112	—	41.8	33.3	45.4	82.8
Diver-sales workers	38	38	33	—	5	—	—	—	45.0	—	76.3	—
Other motor vehicle operators	361	310	224	51	81	—	44	—	47.4	59.0	47.7	3.9
Rail and water transportation occupations	1 174	22	982	15	138	—	55	7	38.7	47.9	54.1	40.9
Material moving equipment operators	9 238	8 887	6 924	256	1 757	85	340	17	36.5	32.6	53.7	74.9
Supervisors, material moving equipment operators	360	326	317	34	9	—	—	—	42.0	52.5	75.2	44.1
Crane, hoist and winch operators	4 282	4 213	3 187	41	923	28	117	—	38.4	32.1	49.8	66.7
Excavating, grading, and dozer machine operators	125	120	99	5	21	—	—	—	40.0	25	32.5	100.0
Other material moving equipment operators	4 471	4 228	3 321	176	804	57	223	11	34.2	31.3	56.6	81.1
Handlers, equipment cleaners, helpers, and laborers	18 609	16 308	11 252	1 372	4 118	724	1 319	263	30.2	31.8	56.3	52.8
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	43	43	28	—	15	—	—	—	75	—	74.4	—
Helpers, craft and production	3 634	3 264	2 331	193	761	137	188	26	25.7	29.8	56.8	47.6
Construction laborers	484	471	361	7	104	6	33	—	28.9	35.7	57.3	53.8
Freight, stock, and material handlers	1 573	1 478	1 125	71	258	24	110	9	34.1	29.1	57.8	50.5
Garage and service station occupations, and equipment cleaners	1 027	937	454	37	399	53	108	7	30.4	30.8	56.5	44.4
Hand packers and packagers	1 972	1 576	1 415	270	134	46	52	108	34.9	33.1	58.0	51.8
Laborers, except construction	10 876	9 539	6 538	794	2 447	458	828	113	30.9	32.4	55.6	55.3

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																	
	Other durable goods																
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed				
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over	1 473 054	852 467	620 587	732 590	510 361	70 200	66 092	73 999	63 907	36.3	35.6	74.7	66.8	19.8	5.8	2.8	1.5
Managerial and professional specialty occupations	243 405	197 693	45 712	187 126	42 034	4 266	1 884	5 415	1 719	40.5	34.5	95.0	92.2	53.4	29.1	4.0	5.7
Executive, administrative, and managerial occupations	156 430	124 167	32 263	118 657	29 812	2 470	1 289	3 657	1 223	41.8	34.8	93.5	91.9	49.9	23.7	5.0	4.8
Officials and administrators, public administration	6 576	5 201	1 375	5 033	1 270	75	57	118	37	38.7	37.2	98.9	92.2	75.9	26.0	0.3	—
Financial managers	18 774	16 424	2 350	16 091	2 266	201	40	153	64	40.5	33.0	97.7	96.0	58.5	33.1	1.7	3.1
Managers, marketing, advertising, and public relations	189	149	40	136	35	7	5	5	—	49.8	39.0	87.9	100.0	47.0	20.0	5.4	—
Administrators, education and related fields	6 287	4 645	1 442	4 255	1 498	226	88	206	107	41.6	36.9	95.2	93.4	50.7	27.4	1.2	0.5
Managers, medicine and health	93 676	78 297	15 379	75 107	14 312	1 224	507	2 592	628	43.3	38.1	91.5	89.4	45.3	21.4	7.1	9.4
Other specified managers	86 332	72 631	13 701	69 667	12 742	1 141	480	2 357	574	43.1	37.7	92.0	89.4	46.9	20.6	—	85.7
Managers and administrators, n.e.c.	7 344	5 666	1 678	5 440	1 570	83	27	235	34	45.9	40.8	84.6	89.5	24.8	27.9	—	—
Self-employed	30 928	19 451	11 477	18 035	10 431	737	592	583	387	37.5	33.6	96.1	94.2	54.2	24.1	1.3	0.2
Management related occupations	14 095	8 686	5 409	7 989	4 854	258	168	237	168	34.4	32.7	98.7	96.5	71.8	29.6	0.7	0.3
Accountants and auditors	5 664	3 263	2 401	2 820	2 122	321	175	124	90.8	39.1	34.4	90.8	89.5	39.7	23.9	0.9	0.2
Personnel, training, and labor relations specialists	8 277	5 380	2 897	5 173	2 713	111	132	152	69	39.9	33.8	95.7	94.0	32.7	13.2	0.6	0.1
Buyers and purchasing agents	2 299	1 998	101	1 800	101	18	—	—	—	41.1	38.3	93.9	77.2	22.2	5.9	6.1	—
Inspectors and compliance officers	2 593	1 924	669	1 873	641	29	24	27	26	43.3	36.1	94.8	96.1	63.3	30.6	6.7	—
Other management related occupations	86 975	73 526	13 449	68 469	12 222	1 796	595	1 758	496	38.0	32.5	97.7	92.8	59.1	42.0	2.2	7.8
Professional specialty occupations	50 810	48 334	2 476	45 035	2 140	995	147	920	93	38.3	31.5	98.7	94.2	60.5	44.3	0.8	0.6
Engineers, architects, and surveyors	156	147	9	120	9	10	—	13	—	35.1	30.0	93.9	100.0	66.7	100.0	—	—
Architects	50 640	48 187	2 453	44 915	2 117	985	147	907	93	38.3	31.5	98.7	94.1	60.5	43.7	0.8	0.6
Engineers	539	515	24	468	24	13	—	12	—	39.7	31.7	96.7	100.0	63.5	8.3	1.0	—
Civil engineers	9 939	9 491	248	8 905	196	269	18	179	14	34.5	33.2	99.4	95.6	69.5	51.6	0.3	—
Electrical and electronic engineers	13 099	11 792	1 307	11 173	1 160	288	82	246	36	38.9	32.0	98.2	92.0	47.4	31.3	0.3	0.5
Industrial engineers	5 951	5 906	45	5 612	37	88	2	108	—	41.3	30.0	98.2	100.0	57.1	53.3	0.4	—
Mechanical engineers	21 112	20 283	829	18 757	700	327	45	362	34	38.9	30.2	99.0	96.6	64.8	61.5	1.3	1.0
Other engineers	14	—	14	—	—	—	—	—	—	—	25	—	100.0	—	—	—	—
Surveyors and mapping scientists	3 813	3 103	710	2 897	640	100	38	64	13	33.9	30.0	98.9	98.0	63.8	55.1	1.0	1.0
Computer systems analysts and scientists	2 063	1 591	472	1 499	418	55	38	33	11	37.4	32.7	97.5	96.2	54.3	34.7	0.4	—
Operations and systems researchers and analysts	432	280	152	245	129	9	17	13	—	40.9	34.6	100.0	88.2	73.9	30.3	—	—
Mathematical scientists	5 543	4 442	1 101	4 074	943	147	70	103	27	35.8	30.9	99.2	97.5	84.1	71.8	1.7	0.7
Natural scientists	3 907	3 137	770	2 848	692	114	36	74	21	35.6	30.7	99.0	98.3	84.3	74.2	0.6	0.9
Chemists, except biochemists	1 636	1 305	331	2 226	251	33	34	29	6	43.6	32.9	100.0	100.0	86.3	74.6	16.7	—
Other natural scientists	363	300	63	280	63	—	—	6	—	43.6	32.9	100.0	100.0	86.3	74.6	16.7	—
Health diagnosing occupations	1 109	1 200	989	92	962	21	17	20	—	32.8	41.1	95.8	97.4	34.2	28.2	6.7	1.7
Health assessment and treating occupations	940	62	878	50	851	12	17	12	—	32.9	42.4	100.0	98.5	29.0	27.6	—	1.3
Registered nurses	169	58	111	42	111	9	—	8	—	32.7	31.0	91.4	88.3	39.7	33.3	13.8	5.4
Other health assessment and treating occupations	1 303	776	527	701	474	46	20	51	30	33.9	34.6	81.7	85.8	31.6	29.6	2.6	10.4
Teachers, except postsecondary	2 930	2 239	691	2 152	677	52	6	23	6	37.0	32.2	98.9	98.1	78.7	45.0	0.8	0.6
Social scientists and urban planners	201	77	124	68	118	9	6	7	—	34.4	33.9	84.4	89.5	63.6	56.5	—	—
Social and recreation workers	859	777	82	720	76	35	6	7	—	42.5	30.2	100.0	100.0	99.4	87.8	0.3	—
Lawyers and judges	17 031	11 300	5 731	10 526	5 284	327	210	518	307	39.1	32.4	93.0	89.4	36.9	35.8	9.4	16.4
Writers, artists, entertainers, and athletes	518	187	331	180	298	—	20	—	9	40.0	32.7	96.3	96.1	63.6	53.2	3.2	—
Other professional specialty occupations	344 434	155 267	189 167	139 377	169 670	9 532	12 185	7 826	10 167	34.7	33.5	88.0	87.6	25.2	7.9	3.1	1.0
Technical, sales, and administrative support occupations	59 943	46 609	13 334	42 044	11 387	2 190	911	1 990	963	32.5	31.3	93.6	84.6	19.6	19.3	0.9	0.7
Technicians and related support occupations	2 905	2 018	887	1 833	767	97	42	83	131	35.2	32.2	82.3	82.2	20.9	26.0	5.3	1.8
Health technologists and technicians	1 222	26	96	9	89	6	—	—	—	53.3	32.6	73.1	87.5	19.2	7.3	—	7.3
Licensed practical nurses	2 783	1 992	791	1 813	678	91	35	83	131	34.9	32.2	82.4	81.5	20.9	28.3	5.4	1.1
Other health technologists and technicians	39 921	31 182	8 739	27 995	7 508	1 621	532	1 449	655	32.3	31.4	94.3	82.5	13.9	14.3	0.7	0.5
Engineering and science technicians	12 807	11 425	1 382	10 043	1 181	675	59	531	137	30.8	32.5	92.0	80.2	9.2	11.3	0.2	—
Electrical and electronic technicians	939	841	98	763	86	57	—	30	—	34.7	32.1	96.4	83.7	26.0	27.6	—	—
Industrial and mechanical engineering technicians	10 612	9 007	1 605	8 177	1 541	362	13	489	79	37.2	29.4	94.5	87.2	12.4	18.4	1.2	0.5
Drafting and surveying technicians	15 563	9 909	5 654	9 012	4 700	527	460	399	432	34.2	31.6	92.0	81.7	19.7	13.7	0.8	0.6
Other engineering and science technicians	17 117	13 409	3 708	12 216	3 112	472	337	458	177	32.5	30.9	93.5	90.2	32.6	29.5	0.7	0.8
Technicians, except health, engineering, and science	218	218	—	218	—	—	—	3	—	38.2	—	94.0	—	26.1	—	—	—
Airplane pilots and navigators	116	99	17	91	17	8	—	—	—	34.6	—	76.8	100.0	8.1	76.5	—	—
Air traffic controllers and broadcast equipment operators	5 899	4 324	1 575	4 040	1 357	77	112	78	21	31.1	29.2	98.6	96.2	50.0	41.8	0.5	1.1
Computer programmers	10 884	8 768	2 116	7 867	1 738	387	225	377	156	33.4	32.7	91.1	85.6	24.5	20.0	0.8	0.5
Other technicians, except health, engineering, and science																	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States												
Other durable goods												
Employed persons 16 years and over—Con.												
Technical, sales, and administrative support occupations—Con.												
Sales occupations												
Supervisors and proprietors, sales occupations												
Self-employed												
Sales representatives, finance and business services												
Sales representatives, commodities, except retail												
Sales workers, retail and personal services												
Cashiers												
Other sales occupations, retail and personal services												
Sales related occupations												
Administrative support occupations, including clerical												
Supervisors, administrative support occupations												
Computer equipment operators												
Secretaries, stenographers, and typists												
Secretaries												
Stenographers and typists												
Receptionists												
Other information clerks												
File clerks												
Other records processing occupations, except financial												
Bookkeepers, accounting, and auditing clerks												
Payroll and timekeeping clerks												
Other financial records processing occupations												
Telephone operators												
Mail and message distributing occupations												
Professors and lecturers												
Traffic, shipping, and receiving clerks												
Stock and bond clerks												
Other material recording, scheduling, and distributing clerks												
Adjusters and investigators												
Data-entry keyers												
Other administrative support occupations												
Service occupations												
Private household occupations												
Protective service occupations												
Guards												
Other protective service occupations												
Service occupations, except protective and household												
Food preparation and service occupation												
Health service occupations												
Cleaning and building service occupations, except household												
Personal service occupations												
Forming, forestry, and fishing occupations												
Precision production, craft, and repair occupations												
Mechanics and repairers												
Supervisors, mechanics and repairers												
Automobile mechanics, including body												
Industrial machinery repairers												
Electronic machinery, communications and industrial equipment												
Heating, air conditioning, and refrigeration mechanics												
Other mechanics and repairers												
Construction trades												
Supervisors, construction occupations												
Carpenters												
Electricians												
Painters, construction and maintenance												
Plumbers, pipefitters, and steamfitters												
Other construction trades												

Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Other durable goods										Percent self-employed			
	Race										Percent completed 4 or more years of college			
	Both sexes										Percent high school graduates			
	Total		White		Black		Spanish origin ¹		Median age		Male		Female	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Precision production, craft, and repair occupations—Con.														
Extracure occupations	141	43	81	29	10	14	13	—	32.2	40.0	62.2	95.3	—	—
Precision production occupations	188 028	138 093	122 950	40 425	7 917	4 890	11 220	6 059	39.2	37.3	74.2	61.2	9.4	4.7
Supervisors, production occupations	78 545	60 881	54 610	14 648	3 841	1 709	4 044	2 055	37.3	40.0	77.1	62.2	9.4	4.7
Precision metalworking occupations	64 257	52 479	46 698	9 504	2 536	1 038	5 006	2 476	41.7	36.1	70.3	55.3	13.2	6.0
Tool and die makers	9 361	2 118	8 814	1 669	1 189	25	249	28	45.2	31.6	74.8	67.9	3.1	0.7
Machinists	25 605	23 312	20 331	1 682	1 189	402	1 816	318	34.9	35.1	70.6	54.6	3.3	2.4
Sheet metal workers	2 650	2 558	2 301	71	131	15	180	18	37.8	36.5	71.3	55.1	20.7	12.0
Other precision metal workers	26 641	17 466	15 252	7 362	540	596	2 761	1 112	37.8	36.5	67.4	55.1	8.2	6.9
Precision textile, apparel, and furnishings machine workers	3 988	1 456	1 089	1 844	205	384	264	557	38.3	40.3	47.0	30.0	1.5	—
Precision food production occupations	428	2 532	1 193	80	49	40	84	13	40.0	39.2	58.2	32.2	3.0	5.5
Precision inspectors, testers, and related workers	4 125	1 344	1 177	2 065	87	522	77	324	36.5	36.5	78.7	60.9	5.0	1.1
Plant and system operators	3 451	3 230	2 927	1 197	174	6	83	10	41.3	37.6	85.9	67.9	26.7	16.7
Other precision production occupations	33 234	18 421	16 256	12 087	1 025	1 191	1 662	1 624	34.0	33.9	75.7	65.5	7.4	3.4
Operators, fabricators, and laborers	601 531	321 117	214 111	247 557	40 156	44 667	42 243	44 756	32.1	37.1	56.8	52.2	3.0	1.5
Machine operators, assemblers, and inspectors	494 508	215 170	167 591	215 976	27 481	37 679	32 772	38 344	32.4	37.3	58.2	52.6	3.3	1.6
Machine operators and tenders, except precision	252 255	129 580	99 292	92 492	17 836	18 940	21 149	19 379	33.1	37.3	55.4	49.2	3.3	1.5
Metalworking and plastic working machine operators	33 943	23 566	19 600	8 674	1 843	982	3 435	1 214	34.5	38.3	54.3	49.3	1.9	0.4
Fabricating machine operators, n.e.c.	2 307	957	765	1 090	78	194	140	161	31.0	37.0	57.5	57.0	1.4	0.6
Metal and plastic processing and woodworking machine operators	18 178	11 216	9 100	5 551	1 360	990	1 071	598	32.6	38.3	55.1	51.0	3.6	1.1
Printing machine operators	4 890	2 821	2 527	2 499	128	330	209	244	28.1	39.8	48.3	49.9	2.7	0.9
Textile machine operators	2 154	917	657	973	174	212	141	89	30.7	36.1	51.0	45.8	1.9	0.5
Textile sewing machine operators	15 982	1 369	829	10 637	242	2 027	413	2 614	35.5	39.2	36.3	45.5	4.4	1.8
Laundry and dry cleaning machine operators	3 765	115	25	76	—	33	—	12	65+	32.0	—	47.8	—	—
Packaging and filling machine operators	2 050	1 779	1 466	237	221	28	132	12	38.4	32.6	49.4	52.4	2.6	0.3
Furnace, kiln, and oven operators, except food	33 320	20 359	16 098	10 348	2 543	1 537	2 846	1 633	32.8	35.0	59.7	53.5	3.3	2.3
Other specified machine operators	135 526	65 801	47 805	50 626	11 002	12 431	12 466	12 639	32.6	37.2	54.5	48.2	3.1	1.7
Miscellaneous and not specified machine operators	192 114	69 123	54 113	95 777	8 438	14 993	10 286	15 932	30.3	36.6	58.9	54.3	3.1	1.6
Fabricators, assemblers, and hand working occupations	18 232	14 799	11 734	2 764	1 967	502	1 999	434	31.6	34.8	56.4	54.3	1.6	1.1
Welders and cutters	4 329	727	620	3 052	12	295	172	488	30.8	38.4	52.4	55.6	1.5	1.1
Solders and brazers	160 726	48 345	37 373	87 067	5 985	13 907	7 351	14 494	29.5	36.6	60.3	54.4	3.5	1.6
Assemblers	8 627	5 252	4 386	2 894	474	289	764	516	34.0	35.5	54.2	51.8	3.2	2.9
Hand working occupations	50 139	16 467	14 186	27 707	1 207	3 746	1 337	3 033	36.0	39.8	77.4	58.8	6.8	2.0
Production inspectors, testers, samplers, and weighers	1 758	531	410	929	62	170	81	196	35.7	35.7	51.2	41.4	4.7	1.5
Graders and sorters, except agricultural	48 381	15 936	13 776	26 778	1 145	3 576	1 256	2 837	35.9	39.9	78.3	59.5	6.9	2.0
Other production inspectors, testers, samplers, and weighers	28 801	25 176	18 845	2 783	4 831	534	2 794	492	32.8	32.8	53.9	58.2	2.1	0.4
Transportation and material moving occupations	12 589	11 907	8 949	552	2 265	90	1 202	34	35.9	31.8	52.1	53.7	2.2	1.9
Motor vehicle operators	12 491	11 818	8 880	543	2 245	70	1 202	34	36.0	31.9	51.9	53.7	2.2	1.9
Truck drivers	11 303	10 899	8 284	443	2 032	73	1 046	24	36.0	30.9	51.3	55.5	2.1	2.2
Other sales, except agricultural	708	234	443	58	27	6	120	10	35.2	35.2	58.4	40.9	13.7	2.8
Other sales, except agricultural	708	234	443	58	27	6	120	10	35.2	35.2	58.4	40.9	13.7	2.8
Other sales, except agricultural	708	234	443	58	27	6	120	10	35.2	35.2	58.4	40.9	13.7	2.8
Rail and motor vehicle operators	98	89	42	56	—	—	136	10	37.2	37.2	57.6	57.6	—	—
Rail and motor transportation occupations	16 212	13 269	9 896	2 231	2 566	444	1 592	458	32.1	32.0	52.5	52.5	12.4	0.2
Metal moving equipment operators	421	388	366	27	388	—	30.3	31.8	30.3	31.8	87.1	78.6	21.0	1.8
Supervisors, material moving equipment operators	793	772	366	12	239	9	71	—	36.1	38.9	47.1	106.8	0.8	1.6
Crane hoist and winch operators	152	137	119	15	18	—	7	—	37.3	45.8	39.4	53.3	—	—
Excavating, grading, and dozer machine operators	14 846	11 972	8 895	2 177	2 293	435	1 494	458	29.2	32.9	55.6	58.7	1.5	0.2
Other material moving equipment operators	78 222	39 368	27 675	28 798	7 844	6 454	6 677	5 920	29.6	36.1	50.9	48.8	2.4	1.2
Handlers, equipment cleaners, helpers, and laborers	191	170	146	8	24	13	—	—	45.4	40.0	62.4	66.7	13.5	0.4
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	2 760	2 122	1 310	449	436	131	541	163	30.0	35.4	42.8	35.7	2.2	—
Helpers, craft and production	587	487	362	56	106	44	55	14	30.1	34.8	56.5	74.0	2.7	—
Construction laborers	8 423	5 817	4 497	1 978	1 063	500	684	233	28.5	35.8	54.5	51.3	2.1	0.8
Freight, stock, and material handlers	1 620	1 121	872	411	154	62	173	57	25.1	38.5	52.0	45.1	0.6	—
Garage and service station occupations, and equipment cleaners	29 950	7 864	5 622	16 426	1 319	3 438	1 521	3 630	29.1	37.6	51.6	48.4	3.2	0.1
Hand packers and packagers	34 691	21 787	14 866	9 470	4 742	2 266	3 703	1 823	30.1	34.2	50.2	49.5	2.2	1.3
Laborers, except construction														

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample. See Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States																
	Transportation, communications, and other public utilities																
	Employed persons 16 years and over																
	Occupation																
Both sexes	Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
7 087 455	5 334 490	1 752 965	4 537 620	1 446 084	587 287	239 996	267 639	82 714	38.7	33.9	76.4	89.0	11.2	10.4	3.5	1.0	
936 109	732 646	203 463	681 010	178 424	30 397	18 059	22 112	7 365	40.9	35.2	92.3	93.9	38.1	27.0	2.9	1.7	
614 376	470 646	143 730	440 061	127 286	18 756	11 687	14 375	5 117	43.4	38.3	90.3	92.9	33.0	20.2	3.9	2.0	
1 428	1 065	363	940 925	338 16	126	16	14 375	26	49.3	48.6	92.9	95.4	29.6	17.9	—	—	
14 756	11 515	3 241	10 885	2 825	312	287	367	154	40.7	37.1	97.4	94.4	59.3	20.6	0.1	0.1	
29 241	24 440	4 801	23 632	4 456	353	223	629	258	41.6	33.1	97.1	96.5	45.3	39.1	0.9	1.3	
687	499	188	435	158	59	24	11	—	43.9	32.9	94.4	86.7	33.7	28.7	3.2	3.2	
52 515	33 936	18 579	32 009	17 418	1 320	739	832	376	48.8	49.0	91.4	85.2	25.9	9.5	0.7	0.2	
392 524	317 316	75 208	298 054	67 779	11 364	5 498	9 598	2 587	43.7	38.6	88.6	92.7	29.6	18.3	5.4	3.4	
372 032	300 002	72 030	281 941	64 712	10 655	5 458	8 939	2 481	43.7	38.3	89.5	93.1	30.5	18.5	—	—	
20 492	17 314	3 178	16 113	3 067	709	40	659	106	44.7	46.1	72.7	82.7	13.9	14.1	98.2	79.6	
123 225	81 875	41 350	74 121	34 262	5 222	4 900	2 912	1 728	40.1	34.0	93.4	96.2	41.8	26.2	0.8	0.4	
54 687	33 304	21 383	30 211	17 623	1 618	2 267	1 318	1 025	36.9	33.1	96.6	96.8	58.9	29.2	0.5	0.5	
33 885	21 723	12 162	19 544	9 969	1 801	1 727	748	475	43.0	36.4	90.7	95.3	26.9	20.8	0.6	—	
9 815	7 603	2 212	7 097	1 940	332	210	236	66	41.7	34.5	92.5	94.4	31.2	17.9	1.3	0.9	
10 760	10 101	659	8 757	548	1 036	95	403	32	42.1	32.2	97.5	90.4	19.3	32.2	0.1	—	
14 078	9 144	4 934	8 512	4 182	4 435	601	207	130	39.5	33.6	96.4	97.3	48.8	29.8	2.5	0.7	
321 733	262 000	59 733	240 949	51 138	11 641	632	7 737	2 248	35.3	31.2	95.8	96.2	47.3	43.3	1.1	1.1	
147 480	135 650	11 830	125 601	10 096	4 331	3 116	3 516	460	39.2	32.4	96.4	97.2	49.3	32.5	0.6	0.2	
1 126	1 043	83	1 043	76	50	7	78	7	41.6	32.0	100.0	92.8	71.4	55.4	—	—	
145 155	133 470	11 685	123 630	9 971	4 250	1 296	3 398	453	39.2	32.4	96.4	97.3	49.4	32.4	0.6	0.2	
17 887	17 310	577	15 738	486	554	37	402	9	40.5	28.5	93.8	97.4	52.5	60.0	0.5	0.7	
85 213	76 103	9 110	70 698	7 759	2 614	1 028	1 961	398	38.8	33.1	97.9	97.6	46.8	29.2	0.3	0.1	
7 243	6 682	561	6 212	486	275	65	101	17	41.3	31.8	96.2	97.7	45.1	31.4	0.4	—	
6 969	6 715	254	6 206	236	187	11	148	—	36.7	29.7	96.8	100.0	67.3	39.4	0.4	—	
27 843	26 660	1 183	24 776	1 004	620	155	786	29	39.8	29.9	93.5	94.4	51.4	42.3	1.4	0.8	
1 199	1 137	62	1 062	49	31	13	40	—	38.0	32.4	94.1	83.9	16.6	27.4	2.6	—	
12 947	9 475	3 472	8 667	2 933	487	326	292	91	34.5	31.6	98.3	98.8	54.6	48.4	0.3	0.4	
7 033	5 087	1 946	4 624	1 618	296	241	133	32	38.1	33.2	97.9	95.1	49.4	41.7	0.3	0.3	
2 388	1 399	989	1 291	828	64	130	17	40	41.0	32.9	97.4	97.5	44.0	31.2	—	—	
9 558	8 062	1 496	7 450	1 313	334	113	164	29	34.0	30.2	98.2	97.6	63.9	63.1	0.6	0.5	
4 230	3 451	779	3 046	656	221	66	55	21	34.8	30.4	99.4	98.3	66.0	73.0	—	—	
5 328	4 611	717	4 404	657	113	47	109	8	33.5	29.9	97.3	96.8	62.2	52.3	1.1	0.8	
619	528	91	480	77	16	14	—	—	48.7	41.9	97.2	100.0	76.3	68.1	8.0	8.8	
Health diagnosing occupations	6 340	4 072	2 268	3 877	1 392	235	158	29	27.1	38.9	96.6	97.7	15.2	25.8	1.0	0.9	
Health assessment and treating occupations	1 744	1 550	194	1 550	1 303	219	159	25	39.7	45.8	89.7	98.5	28.9	31.2	3.6	0.9	
Registered nurses	4 596	3 878	718	3 718	116	16	158	4	26.8	28.6	97.0	95.8	14.5	14.1	0.9	1.0	
Teachers, except postsecondary	8 663	5 691	2 972	5 202	301	411	176	26	39.0	33.8	93.0	96.5	27.3	32.4	5.0	2.0	
Social scientists and urban planners	8 724	5 997	2 727	5 463	304	371	127	92	34.6	31.4	99.5	97.5	68.3	50.4	0.6	0.1	
Social and recreation workers	703	318	387	279	33	177	7	42	44.9	35.7	98.1	85.0	39.6	23.5	0.6	1.8	
Lawyers and judges	5 648	4 721	927	4 598	762	109	143	64	39.4	34.9	97.9	98.6	38.1	89.0	1.5	1.8	
Writers, artists, entertainers, and athletes	109 010	79 690	29 320	72 363	25 460	5 004	3 005	1 311	31.3	29.8	93.9	95.5	39.7	47.9	2.0	1.7	
Other professional specialty occupations	2 618	1 310	1 308	1 034	223	242	78	62	34.7	33.3	90.5	93.0	33.0	27.3	2.4	—	
Technical, sales, and administrative support occupations	2 521 707	1 261 272	1 260 435	1 078 978	1 038 559	135 184	174 774	61 851	39.5	33.8	88.6	91.2	14.6	8.0	0.6	0.5	
Technicians and related support occupations	220 095	187 407	32 688	172 762	27 502	8 837	3 670	5 780	36.3	30.9	95.0	94.6	26.8	25.1	0.9	0.5	
Health technologists and technicians	10 634	7 974	2 660	7 169	2 469	587	145	200	27.1	29.1	87.0	91.4	9.2	11.5	9.4	1.2	
Licensed practical nurses	251	82	169	66	155	16	14	15	46.3	34.5	72.0	88.8	—	8.3	9.8	—	
Other health technologists and technicians	10 383	7 892	2 491	7 103	2 314	571	131	200	27.0	28.7	88.1	91.6	9.3	11.8	1.3	1.2	
Engineering and science technicians	72 303	59 975	12 328	53 760	10 296	3 825	1 418	2 402	35.0	31.6	93.2	94.2	13.5	14.7	0.3	0.3	
Electrical and electronic technicians	27 246	25 472	1 774	22 875	1 473	1 563	221	892	31.1	30.6	93.0	93.4	10.4	17.5	0.2	0.4	
Industrial and mechanical engineering technicians	1 212	1 088	124	1 016	58	4	38	5	37.3	31.4	83.3	95.2	31.4	20.2	—	—	
Drafting and surveying technicians	23 910	17 514	6 396	15 305	5 381	1 259	702	959	33.7	31.8	93.0	94.3	10.6	9.1	0.4	0.3	
Other engineering and science technicians	19 935	15 901	4 034	14 564	3 334	954	491	513	35.5	31.8	91.2	94.3	20.3	22.2	0.3	0.3	
Technicians, except health, engineering, and science	137 158	119 458	17 700	111 853	14 737	4 425	2 107	3 178	37.6	30.6	96.4	95.4	34.7	34.4	1.1	0.6	
Airplane pilots and navigators	58 938	58 231	707	56 994	683	503	19	944	43	40.0	32.6	97.7	95.0	48.5	39.5	1.9	7.5
Air traffic controllers and broadcast equipment operators	16 857	13 995	2 862	12 679	2 355	955	382	416	34.7	29.1	97.2	88.5	19.6	21.7	1.0	0.4	
Computer programmers	22 537	14 679	7 858	13 051	6 672	904	762	499	30.1	29.9	99.3	98.4	48.4	49.4	0.3	0.3	
Other technicians, except health, engineering, and science	38 826	32 553	6 273	29 129	5 027	2 063	944	1 319	36.5	31.8	94.7	95.0	10.3	20.7	0.2	0.3	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.)

	United States										Transportation, communications, and other public utilities									
	Race										Median age									
	Total		White		Black		Spanish origin ¹		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		Male		Female		Male	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.																				
Sales occupations	215 920	108 240	107 680	99 202	5 953	7 733	4 317	4 328	34.4	39.3	29.3	20.1	3.3	2.2	29.3	20.1	33.5	93.5	29.3	20.1
Supervisors and proprietors, sales occupations	12 128	9 934	2 194	9 263	329	128	496	132	34.8	40.9	26.1	20.2	8.2	6.1	26.1	20.2	87.1	91.1	26.1	20.2
Salaried	11 139	9 108	2 051	8 603	322	128	432	112	34.1	40.7	26.5	21.2	99.0	93.7	26.5	21.2	88.5	93.9	26.5	21.2
Self-employed	159 146	78 037	81 109	72 915	2 996	3 766	2 732	2 986	33.7	38.9	33.2	24.7	3.2	2.5	33.2	24.7	93.2	96.1	33.2	24.7
Sales representatives, finance and business services	43 508	19 301	24 207	16 080	2 604	3 634	1 976	2 022	37.6	42.5	30.3	34.1	1.6	1.5	30.3	34.1	100.0	95.5	30.3	34.1
Sales workers, retail and personal services	36 757	15 160	21 597	12 272	2 431	3 627	1 065	1 088	38.0	45.5	10.0	4.5	1.2	0.7	10.0	4.5	77.4	84.4	10.0	4.5
Cashiers	6 751	4 141	2 610	3 608	173	207	171	134	32.3	33.3	16.2	13.0	3.4	0.4	16.2	13.0	85.7	87.4	16.2	13.0
Other sales occupations, retail and personal services	304	178	126	134	24	5	—	—	32.0	33.4	12.9	33.3	9.6	4.8	12.9	33.3	83.1	80.0	12.9	33.3
Administrative support occupations, including clerical	2 085 692	945 625	1 200 067	806 994	914 730	163 371	51 754	54 104	33.9	40.4	10.6	6.4	0.3	0.4	10.6	6.4	87.2	90.8	10.6	6.4
Supervisors, administrative support occupations	183 398	115 656	61 322	107 079	11 705	9 045	4 306	4 321	38.4	43.7	16.3	9.5	0.2	0.2	16.3	9.5	92.0	93.8	16.3	9.5
Computer equipment operators	33 552	15 215	8 317	13 107	1 749	3 325	1 016	1 016	31.7	32.6	13.4	8.2	0.7	0.1	13.4	8.2	89.4	93.8	13.4	8.2
Secretaries, stenographers, and typists	218 898	107 922	52 722	148 919	18 788	33 143	10 245	10 245	32.5	35.6	18.1	5.5	0.8	0.4	18.1	5.5	87.4	93.6	18.1	5.5
Secretaries	168 862	84 948	22 924	107 726	10 726	18 788	7 514	7 514	32.9	35.6	23.0	5.2	0.7	0.5	23.0	5.2	87.4	93.6	23.0	5.2
Stenographers and typists	45 736	22 988	6 804	22 988	8 317	15 177	2 731	2 731	30.7	38.2	15.0	4.3	0.5	0.2	15.0	4.3	90.9	92.6	15.0	4.3
Receptionists	15 831	7 642	4 170	3 461	2 204	1 261	1 035	1 035	30.7	38.2	15.0	4.3	0.5	0.2	15.0	4.3	86.4	84.4	15.0	4.3
Other information clerks	103 841	40 642	23 192	34 728	52 277	3 637	2 470	3 940	30.7	36.9	19.0	16.5	0.1	0.1	19.0	16.5	92.6	94.4	19.0	16.5
File clerks	114 098	3 506	10 892	2 829	8 018	443	2 019	2 019	32.7	32.7	12.3	8.3	0.3	0.1	12.3	8.3	86.1	85.1	12.3	8.3
Other records processing occupations, except financial	114 181	32 058	82 123	27 578	66 323	3 041	2 047	4 412	32.2	34.6	14.9	8.3	0.2	0.2	14.9	8.3	93.0	94.6	14.9	8.3
Bookkeepers, accounting, and auditing clerks	100 687	17 280	83 407	15 214	75 423	1 113	2 103	3 662	37.4	38.6	13.0	5.6	1.1	1.9	13.0	5.6	93.0	94.6	13.0	5.6
Payroll and timekeeping clerks	19 631	5 944	13 687	11 570	553	1 560	257	528	41.8	41.8	89.9	4.3	—	—	89.9	4.3	90.9	92.8	89.9	4.3
Other financial records processing occupations	37 848	12 917	24 931	11 879	21 896	670	2 355	971	39.7	39.7	15.4	4.7	0.3	0.3	15.4	4.7	93.6	91.5	15.4	4.7
Telephone operators	143 408	16 816	126 592	13 617	98 485	2 191	3 355	6 544	37.6	27.9	10.4	3.3	0.1	0.1	10.4	3.3	92.4	87.1	10.4	3.3
Mail and message distributing occupations	550 671	413 435	197 236	333 093	95 826	63 690	21 090	4 460	43.7	37.8	86.5	5.8	0.1	0.1	86.5	5.8	86.5	86.2	86.5	5.8
Production coordinators and expeditors	30 057	17 112	12 945	14 910	10 770	1 783	603	623	39.4	39.4	15.0	10.8	0.7	0.3	15.0	10.8	87.1	90.8	15.0	10.8
Traffic, shipping, and receiving clerks	59 672	47 711	11 961	38 596	10 055	6 583	3 976	727	33.5	33.5	8.9	9.9	0.4	0.2	8.9	9.9	85.3	89.7	8.9	9.9
Stock and inventory clerks	39 083	29 774	9 309	24 649	7 595	3 823	2 042	551	39.0	39.0	5.4	4.0	0.2	0.2	5.4	4.0	78.1	85.5	5.4	4.0
Other material recording, scheduling, and distributing clerks	112 502	89 431	23 071	77 365	19 395	9 371	4 691	906	36.2	36.2	6.8	3.8	0.8	1.1	6.8	3.8	90.7	93.7	6.8	3.8
Adjusters and investigators	32 871	15 779	17 092	13 894	14 178	1 472	2 190	964	39.8	39.8	18.7	10.3	0.5	0.3	18.7	10.3	91.2	92.0	18.7	10.3
Data-entry keyers	28 884	4 572	24 312	3 609	18 313	650	4 276	1 647	34.8	34.8	11.7	3.9	—	—	11.7	3.9	90.7	93.7	11.7	3.9
Other administrative support occupations	244 379	74 145	170 234	63 652	138 421	7 447	4 198	8 932	34.3	39.0	13.0	5.3	0.3	0.3	13.0	5.3	87.3	90.7	13.0	5.3
Service occupations	250 776	157 422	93 354	112 167	73 413	36 263	12 088	4 843	32.3	40.5	7.0	17.2	0.5	0.4	7.0	17.2	64.9	80.5	7.0	17.2
Private household occupations	35 643	31 091	4 572	24 970	3 315	5 195	1 472	239	41.2	41.2	9.8	5.1	—	—	9.8	5.1	74.8	77.7	9.8	5.1
Protective service occupations	32 463	28 037	4 427	22 215	3 188	4 949	1 397	233	33.0	41.2	9.8	5.1	—	—	9.8	5.1	74.8	77.7	9.8	5.1
Janitors	3 199	3 054	145	2 755	197	246	75	—	32.3	40.5	9.7	17.2	0.2	—	9.7	17.2	88.3	95.9	9.7	17.2
Other protective service occupations	215 113	126 331	88 782	87 197	70 098	14 028	10 614	4 604	40.3	40.3	6.4	17.6	0.4	—	6.4	17.6	82.5	80.6	6.4	17.6
Service occupations, except protective and household	15 721	8 710	7 011	5 058	4 746	2 875	1 170	908	41.9	41.9	5.1	7.6	0.5	0.4	5.1	7.6	82.5	80.6	5.1	7.6
Health and service occupations	4 196	2 650	1 546	2 342	1 251	206	151	52	26.5	26.5	2.6	1.8	0.5	0.6	2.6	1.8	82.8	87.4	2.6	1.8
Cleaning and building service occupations, except household	106 473	88 345	18 128	63 311	10 484	20 479	6 865	1 148	46.1	46.1	19.1	24.2	0.5	0.8	19.1	24.2	57.3	47.5	19.1	24.2
Personal service occupations	88 723	26 626	62 097	16 486	53 417	7 508	2 430	2 476	30.7	34.4	5.4	4.7	1.6	1.8	5.4	4.7	79.9	92.9	5.4	4.7
Farming, forestry, and fishing occupations	6 552	6 018	534	4 515	415	1 054	610	24	26.9	35.1	4.0	6.9	3.9	3.9	4.0	6.9	56.1	65.9	4.0	6.9
Precision production, craft, and repair occupations	219 828	167 552	52 276	104 732	42 918	83 540	52 050	2 851	33.2	38.3	4.4	7.5	0.7	0.5	4.4	7.5	80.1	86.3	4.4	7.5
Mechanics and repairers	680 853	647 627	33 226	578 214	27 096	46 917	31 165	1 903	36.8	36.8	3.1	5.6	0.7	0.2	3.1	5.6	81.4	89.5	3.1	5.6
Supervisors, mechanics and repairers	39 602	38 471	1 131	35 900	963	1 695	1 252	72	45.3	45.3	6.6	14.4	0.4	0.7	6.6	14.4	83.3	91.5	6.6	14.4
Automobile mechanics, including body	47 531	47 033	498	39 653	387	5 073	3 028	19	37.0	37.0	1.7	3.9	1.4	2.6	1.7	3.9	65.2	77.7	1.7	3.9
Industrial machinery repairers	25 769	25 462	307	22 464	264	2 334	926	15	37.5	37.5	2.6	3.9	0.3	—	2.6	3.9	77.4	83.4	2.6	3.9
Electronic repairers, communications and industrial equipment	27 505	26 718	787	24 413	624	1 366	1 331	41	32.9	32.9	5.4	4.7	1.6	1.8	5.4	4.7	86.5	78.9	5.4	4.7
Heating, air conditioning, and refrigeration mechanics	4 925	4 858	67	4 327	61	365	210	—	29.3	29.3	2.7	—	1.5	—	2.7	—	85.1	85.1	2.7	—
Other mechanics and repairers	535 521	505 085	30 436	451 457	24 797	36 084	24 418	1 736	36.2	36.2	2.8	5.4	0.7	0.1	2.8	5.4	82.7	89.9	2.8	5.4
Construction trades	243 927	239 932	3 995	215 009	3 289	18 274	9 753	131	35.3	35.3	3.3	7.9	0.5	0.6	3.3	7.9	78.2	65.3	3.3	7.9
Supervisors, construction occupations	30 239	29 745	494	27 885	405	1 329	748	—	45.9	45.9	9.5	9.9	0.5	1.2	9.5	9.9	80.2	77.5	9.5	9.9
Carpenters	14 753	14 545	208	12 952	150	1 029	51	786	37.1	37.1	2.8	5.4	1.3	—	2.8	5.4	61.7	67.2	2.8	5.4
Electricians	54 684	53 809	875	48 133	707	4 005	143	2 339	36.3	36.3	3.1	9.2	0.6	—	3.1	9.2	83.3	80.1	3.1	9.2
Painters, construction and maintenance	5 933	5 745	188	4 774	145	714	552	714	37.9	37.9	2.0	5.9	0.9	2.7	2.0	5.9	59.8	58.1	2.0	5.9
Plumbers, pipefitters, and steamfitters	31 804	31 156	648	26 448	617	3 642	28	1 711	37.5	37.5	69.1	22.8	0.4	0.4	69.1	22.8	45.0	45.0	69.1	22.8
Other construction trades	106 514	104 932	1 582	94 817	1 265	7 555	3 617	64	36.2	36.2	1.8	5.9	0.3	0.3	1.8	5.9	80.9	80.9	1.8	5.9

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States											
Transportation, communications, and other public utilities											
Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
Total		White		Black		Male		Male		Male	
Both sexes	Male	Female	Male	Female	Male	Female	Female	Male	Female	Male	Female
Precision production, craft, and repair occupations—Con											
Extraction occupations	1 225	1 170	1 023	15	103	39 9	8	72 7	85 5	8 0	21 8
Precision production occupations	293 823	278 823	253 076	12 493	18 246	42 0	809	79 0	84 9	8 6	10 9
Supervisors, production occupations	151 234	142 552	131 191	7 249	8 221	44 7	513	38 2	39 6	11 7	13 8
Precision metalworking occupations	33 393	32 929	29 213	389	2 541	38 6	7	75 3	77 6	2 4	5 4
Tool and die makers	550	526	489	24	25	46 6	—	82 3	58 3	—	—
Machinists	23 014	22 830	20 053	149	1 933	38 6	—	75 6	66 3	2 4	7 6
Sheet metal workers	5 612	5 409	4 842	53	175	40 8	—	75 0	71 7	1 6	9 4
Other precision metal workers	988	972	849	408	40	35 3	—	73 5	71 6	2 9	3 0
Precision textile, apparel, and furnishings machine workers	3 521	2 504	2 192	154	167	46 8	18	53 0	50 5	4 0	2 8
Precision food production occupations	16 715	15 617	13 985	947	225	37	—	61 5	65 1	2 0	1 5
Precision inspectors, testers, and related workers	85 449	82 339	74 013	812	1 091	45 2	48	77 1	87 8	3 7	3 7
Plant and system operators	2 523	2 110	1 909	280	132	37 5	73	80 6	83 2	6 9	10 9
Other precision production occupations						38 3		77 7	66 8	3 2	3 9
Operators, fabricators, and laborers	2 152 483	2 009 580	1 633 628	112 375	300 849	37 5	7 555	61 8	69 7	3 5	3 6
Machine operators, assemblers, and inspectors	164 370	145 890	121 460	13 113	18 246	36 0	1 385	69 7	70 8	3 6	3 9
Machine operators and tenders, except precision	78 221	68 289	54 544	6 791	10 245	35 0	722	69 7	74 0	3 6	3 9
Metalworking and plastic working machine operators	3 958	3 667	3 105	210	390	36 8	22	64 7	63 9	5 3	2 1
Rubber, leather, and textile machine operators, n.e.c.	305	224	11	61	65	36 5	9	66 1	63 1	5 8	—
Metal and plastic processing and woodworking machine operators	1 404	1 263	946	106	251	33 6	15	62 1	65 2	5 1	—
Printing machine operators	2 793	1 915	1 482	687	318	33 2	66	85 7	82 1	4 6	5 7
Textile machine operators	357	283	220	31	43	37 5	—	60 8	70 3	7 4	—
Textile sewing machine operators	290	186	128	56	58	31 2	17	32 8	57 7	1 1	—
Laundry and dry cleaning machine operators	244	123	103	55	8	32 7	23	57 0	66 7	5 8	—
Packaging and filling machine operators	8 469	8 361	7 291	131	46	35 8	20	68 2	53 8	10 9	—
Furnace, kiln, and oven operators, except food	7 766	6 617	5 393	849	241	36 9	30 2	78 6	94 4	1 7	20 4
Other specified machine operators	52 069	45 275	35 426	4 526	7 542	34 7	101	64 5	76 9	4 0	6 0
Miscellaneous						34 8		67 3	74 2	3 8	0 5
Fabricators, assemblers, and hand working occupations	52 490	47 914	40 762	3 274	5 031	34 1	441	68 5	64 0	1 8	1 9
Welders and cutters	39 645	39 182	34 159	320	3 381	34 0	310	68 7	68 0	1 4	0 6
Solders and brazers	260	82	178	119	11	37 8	25	78 0	60 1	11 0	2 8
Assemblers	10 761	7 050	5 270	2 678	1 344	33 8	375	68 0	63 1	3 7	2 0
Hand working occupations	1 824	1 600	1 273	157	295	38 1	104	64 6	73 2	2 1	3 1
Production inspectors, testers, samplers, and weighers	33 593	29 689	26 154	3 048	2 764	42 6	371	74 4	70 9	6 3	3 8
Graders and sorters, except agricultural	2 626	1 299	1 001	1 044	229	26 7	245	73 8	50 6	7 2	0 9
Other production inspectors, testers, samplers, and weighers	30 967	28 390	25 153	2 004	2 535	43 2	147	74 4	81 3	6 2	5 3
Transportation and material moving occupations	1 534 881	1 438 943	1 205 636	79 493	187 385	38 8	3 734	62 0	71 4	3 6	3 6
Transportation occupations	1 452 041	1 358 227	1 141 800	77 865	174 261	38 9	3 608	62 1	71 5	3 6	3 6
Motor vehicle operators	1 213 977	1 123 753	90 224	929 502	74 865	38 8	36 3	59 4	71 1	3 3	3 4
Truck drivers	902 465	879 608	758 805	20 295	96 019	38 4	948	57 2	70 2	2 3	4 2
Driver-sales workers	4 871	4 609	4 006	239	512	36 5	5	72 9	82 1	4 9	3 1
Other motor vehicle operators	306 643	239 536	166 691	54 331	60 214	40 6	2 524	67 1	71 4	6 3	3 1
Rail and water transportation occupations	238 064	234 474	212 298	3 000	17 516	39 4	131	75 1	81 2	5 3	11 2
Material moving equipment operators	82 840	80 716	63 836	1 428	13 124	37 6	126	59 4	64 8	2 9	2 7
Supervisors, material moving equipment operators	10 536	10 383	8 912	144	127	42 9	—	69 2	81 0	7 6	1 8
Crane, hoist, and winch operators	8 313	8 204	6 861	86	1 086	40 3	—	58 6	70 6	1 9	1 8
Excavating, grading, and dozer machine operators	9 040	8 775	7 735	223	265	36 4	12	56 3	72 5	1 4	3 4
Other material moving equipment operators	54 951	53 354	40 328	1 175	10 150	36 2	114	58 1	61 6	2 4	1 8
Handlers, equipment cleaners, helpers, and laborers	453 292	424 745	306 532	19 769	95 199	32 9	2 236	58 6	63 3	3 1	3 3
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	2 873	2 689	2 164	148	447	41 9	—	84 5	90 8	12 1	3 3
Helpers, craft and production	14 136	13 381	10 411	521	2 318	29 1	30 1	64 7	84 5	1 8	4 4
Construction laborers	16 022	16 283	12 938	230	2 525	33 3	15	65 4	66 1	2 8	2 1
Freight, stock, and material handlers	243 114	233 903	167 645	6 103	55 510	33 3	484	58 7	71 7	3 6	4 9
Gauge and service station occupations, and equipment cleaners	17 908	15 914	11 413	1 306	3 558	30 6	143	58 1	58 0	3 1	2 7
Hand packers and packagers	13 290	7 846	5 444	3 978	1 593	31 4	33 9	54 1	53 9	3 1	2 1
Laborers, except construction	145 349	134 729	96 548	7 483	29 246	32 7	855	56 8	59 9	2 3	0 7

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States												
Railroads												
Both sexes	Total		Race		Black		Spanish origin ¹		Median age		Percent high school graduates	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
577 519	532 755	44 764	469 744	37 705	47 574	5 732	25 547	1 396	39.5	36.5	75.2	89.2
57 625	53 620	4 005	49 771	3 514	2 863	352	1 611	54	45.3	35.9	84.1	95.1
47 330	44 170	3 160	40 857	2 758	2 485	299	1 471	36	46.0	38.5	82.3	94.5
6	6	—	6	—	—	—	—	—	60.0	—	—	—
1 801	743	58	737	41	6	17	15	—	46.3	46.4	96.5	70.7
1 595	1 544	51	1 535	51	—	—	4	—	49.2	30.2	97.3	100.0
6	6	—	6	—	—	—	—	—	60.0	—	—	—
937	840	97	799	75	30	8	19	6	43.8	36.3	93.3	100.0
34 026	32 473	1 553	30 042	1 389	1 823	125	1 117	28	46.5	40.7	80.1	92.2
34 026	32 473	1 553	30 042	1 389	1 823	125	1 117	28	46.5	40.7	80.1	92.2
—	—	—	—	—	—	—	—	—	—	—	—	—
9 959	8 558	1 401	7 732	1 202	626	149	316	2	42.8	36.1	85.3	97.5
3 647	2 749	898	2 533	755	137	124	41	2	42.8	38.0	87.0	97.3
2 006	1 773	233	1 633	201	114	14	52	—	45.2	34.4	87.8	97.3
732	608	124	574	120	34	4	—	—	47.0	42.0	94.4	100.0
2 513	2 489	24	2 086	24	295	4	217	—	39.8	33.3	45.0	79.2
1 061	939	122	886	102	46	7	6	—	42.1	31.6	94.7	100.0
10 295	9 450	845	8 914	756	378	53	140	18	41.5	31.8	93.0	97.3
6 047	5 931	116	5 624	111	203	5	65	—	43.0	31.0	90.6	100.0
53	47	6	47	—	—	—	—	—	44.0	30.0	100.0	100.0
5 865	5 766	99	5 469	94	203	5	94	—	43.2	30.5	90.5	100.0
3 513	3 467	46	3 289	46	116	—	26	—	44.9	31.8	87.5	100.0
616	611	5	585	5	20	—	14	—	40.1	25.0	93.1	100.0
615	600	15	591	15	—	—	—	—	41.0	33.3	96.8	100.0
343	323	20	302	15	21	5	5	—	44.1	33.3	89.5	100.0
778	765	13	702	13	46	—	—	—	41.3	25.0	97.3	100.0
129	118	11	108	11	—	—	15	—	34.0	35.8	94.9	100.0
965	739	226	684	179	50	27	14	—	36.8	31.1	97.8	100.0
458	381	77	347	74	15	3	6	—	37.9	31.6	97.9	93.5
222	146	76	131	76	15	—	—	7	47.3	39.2	100.0	100.0
176	162	14	162	7	—	—	—	—	48.8	35.0	98.1	50.0
138	131	7	131	7	—	—	—	—	49.6	25.0	100.0	100.0
38	31	7	31	—	—	—	—	—	45.6	50.0	90.3	—
33	33	—	27	33	6	—	—	—	38.9	—	100.0	—
39	6	33	6	—	—	—	—	—	40.0	54.5	100.0	24.2
33	—	33	—	—	—	—	—	—	40.0	54.5	100.0	24.2
6	6	—	6	—	—	—	—	—	40.0	—	100.0	—
139	125	14	120	3	5	11	—	—	40.2	31.4	91.2	100.0
345	272	73	245	73	27	—	7	—	35.0	29.6	100.0	100.0
33	16	17	16	17	—	—	—	—	53.0	40.0	100.0	100.0
730	658	72	651	72	7	—	—	—	44.7	31.4	99.2	100.0
1 020	929	91	856	86	43	—	48	—	36.5	30.4	94.4	65.9
88	52	36	45	25	7	—	—	11	57.1	35.8	75.0	19.4
106 780	73 231	33 549	67 483	28 991	4 514	3 628	2 187	984	43.6	37.4	86.4	92.3
4 486	3 926	560	3 748	447	116	41	90	—	34.9	31.7	94.4	95.7
34	26	8	26	8	—	—	—	—	33.9	31.7	80.8	100.0
4	2	2	2	—	—	—	—	—	60.0	50.0	100.0	100.0
30	24	6	24	6	—	—	—	—	32.8	30.0	79.2	100.0
2 309	2 192	117	2 094	78	83	20	71	—	34.7	35.2	94.9	97.4
746	721	25	693	12	28	—	21	—	33.3	30.7	97.8	88.0
83	75	8	75	8	—	—	—	—	31.7	48.3	100.0	100.0
1 066	1 001	65	957	39	29	20	11	—	36.7	37.6	93.3	100.0
414	395	19	369	19	26	—	39	—	35.5	31.3	92.9	100.0
2 123	1 708	415	1 628	361	33	21	19	—	35.5	31.0	94.0	95.2
26	26	—	26	—	—	—	—	—	58.5	—	100.0	—
139	116	23	116	23	—	—	—	—	47.9	36.5	93.1	43.5
1 191	891	300	854	252	4	15	7	—	32.6	30.1	98.0	100.0
767	675	92	632	86	29	6	12	—	41.5	33.9	88.6	92.4

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States													Percent completed 4 or more years of college		Percent self-employed	
	Railroads																
	Race						Spanish origin ¹		Median age		Percent high school graduates						
	Total		White		Black												
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over—Con.																	
Technical, sales, and administrative support occupations—Con																	
Sales occupations																	
Supervisors and proprietors, sales occupations																	
Salaries																	
Self-employed																	
Sales representatives, finance and business services																	
Sales representatives, commodities, except retail																	
Sales workers, retail and personal services																	
Cashiers																	
Other sales occupations, retail and personal services																	
Sales related occupations																	
Administrative support occupations, including clerical																	
Supervisors, administrative support occupations																	
Computer equipment operators																	
Secretaries, stenographers, and typists																	
Secretaries																	
Stenographers and typists																	
Receptionists																	
Other information clerks																	
File clerks																	
Other records processing occupations, except financial																	
Bookkeepers, accounting, and auditing clerks																	
Payroll and timekeeping clerks																	
Other financial records processing occupations																	
Telephone operators																	
Mail and message distributing occupations																	
Production coordinators and expeditors																	
Traffic, shipping, and receiving clerks																	
Stock and inventory clerks																	
Other material recording, scheduling, and distributing clerks																	
Adjusters and investigators																	
Data-entry keyers																	
Other administrative support occupations																	
Service occupations																	
Private household occupations																	
Protective service occupations																	
Guards																	
Other protective service occupations																	
Service occupations, except protective and household																	
Food preparation and service occupations																	
Health service occupations																	
Cleaning and building service occupations, except household																	
Personal service occupations																	
Farming, forestry, and fishing occupations																	
Precision production, craft, and repair occupations																	
Mechanics and repairers																	
Supervisors, mechanics and repairers																	
Automobile mechanics, including body																	
Industrial machinery repairers																	
Electronic repairers, communications and industrial equipment																	
Heating, air conditioning, and refrigeration mechanics																	
Other mechanics and repairers																	
Construction trades																	
Supervisors, construction occupations																	
Carpenters																	
Electricians																	
Painters, construction and maintenance																	
Plumbers, pipefitters, and steamfitters																	
Other construction trades																	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																	
Railroads																	
Race				Spanish origin ¹				Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
Total		White		Black		Male		Female		Male		Female		Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over—Con.																	
Precision production, craft, and repair occupations—Con																	
Extraction occupations	82	212	75	7	2 072	26	5	—	41.4	—	56.1	—	2.7	17.0	—	—	
Precision production occupations	28 926	28 724	25 787	181	3 734	63	1 463	5	40.3	29.4	72.5	90.1	2.7	17.0	—	—	
Supervisors, production occupations	4 073	4 006	3 734	63	1 774	5	1 171	5	45.4	31.8	77.6	100.0	4.8	35.8	—	—	
Precision metalworking occupations	16 662	16 587	14 798	70	1 254	4	889	—	37.6	26.5	75.2	93.3	1.9	—	—	—	
Tool and die makers	103	103	84	13	1 044	5	709	—	43.5	—	72.8	—	2.0	—	—	—	
Machinists	13 767	13 714	12 225	48	1 044	5	1 227	—	37.7	25	75.9	94.3	2.0	—	—	—	
Sheet metal workers	1 747	1 727	1 609	20	1 044	5	1 227	—	36.6	27.3	74.3	100.0	1.4	—	—	—	
Other precision metal workers	1 045	1 045	880	2	133	—	47	—	37.5	60.0	71.1	—	—	—	—	—	
Precision textile, apparel, and furnishings machine workers	103	92	85	8	9	5	—	—	53.2	34.2	55.4	—	—	—	—	—	
Precision food production occupations	51	43	35	8	8	—	—	—	29.4	25	58.1	100.0	—	—	—	—	
Precision inspectors, testers, and related workers	7 234	7 194	6 458	23	520	12	554	5	44.7	29.0	64.7	87.5	3.4	30.0	—	—	
Plant and system operators	643	—	536	88	88	—	44	—	46.7	—	66.6	—	4.7	—	—	—	
Other precision production occupations	170	159	143	11	16	—	5	—	39.6	25	55.3	100.0	—	—	—	—	
Operators, fabricators, and laborers																	
Machine operators, assemblers, and inspectors	287 848	285 242	245 802	3 593	27 998	854	14 925	225	37.5	32.0	72.4	75.2	3.6	7.6	—	—	
Machine operators and tenders, except precision	39 550	38 915	32 639	437	4 507	173	2 856	34	35.0	34.0	65.0	73.7	2.3	2.0	—	—	
Metalworking and plastic working machine operators	13 468	13 157	10 340	190	2 053	98	1 311	23	34.9	31.9	61.2	82.6	2.6	1.9	—	—	
Fabricating machine operators, n.e.c.	1 136	1 110	925	17	117	—	101	9	33.4	28.1	64.9	92.3	3.9	—	—	—	
Metal and plastic processing and woodworking machine operators	52	—	46	6	—	—	—	—	37.5	—	50.0	—	—	—	—	—	
Printing machine operators	122	120	120	2	—	—	8	—	45.4	25	80.0	—	—	—	—	—	
Textile machine operators	165	143	123	22	20	—	—	—	45.1	40.0	72.7	100.0	9.1	—	—	—	
Textile sewing machine operators	21	—	13	—	8	—	—	—	30.8	—	100.0	—	12.5	—	—	—	
Laundry and dry cleaning machine operators	26	16	16	—	10	—	—	—	50.0	—	30.0	—	—	—	—	—	
Packaging and filling machine operators	46	31	24	—	15	—	7	—	32.7	47.5	87.1	33.3	22.6	—	—	—	
Furnace, kiln, and oven operators, except food	7	—	—	—	—	—	—	—	60.0	—	100.0	—	—	—	—	—	
Other specified machine operators	248	239	186	9	33	—	25	—	34.4	30.0	74.5	100.0	—	—	—	—	
Miscellaneous and not specified machine operators	679	646	569	28	46	—	68	—	40.2	37.5	59.4	81.8	—	—	—	—	
Fabricators, assemblers, and hand working occupations	10 966	10 772	8 318	112	1 816	68	1 102	14	34.8	31.1	60.2	86.1	2.6	3.1	—	—	
Welders and cutters	16 937	16 712	14 169	158	1 733	65	1 142	11	32.7	33.3	67.9	62.7	1.5	—	—	—	
Solders and brazers	15 017	14 864	12 787	92	1 324	59	1 053	7	32.5	33.8	68.4	65.4	1.5	—	—	—	
Assemblers	9	—	4	—	5	—	—	—	26.0	—	55.6	—	—	—	—	—	
Hand working occupations	1 126	1 084	788	36	265	6	56	4	35.0	32.1	64.5	71.4	2.2	—	—	—	
Production inspectors, testers, samplers, and weighers	785	755	30	30	139	—	33	—	37.0	33.0	63.2	36.7	1.1	—	—	—	
Graders and sorters, except agricultural	9 145	9 046	8 130	89	721	10	403	—	45.4	49.4	65.0	70.7	3.3	7.1	—	—	
Other production inspectors, testers, samplers, and weighers	55	44	44	11	—	—	2	—	46.8	50.0	70.5	36.4	—	—	—	—	
Transportation and material moving occupations	9 090	9 002	8 086	78	721	10	401	—	45.4	49.1	65.0	75.0	3.3	8.0	—	—	
Transportation occupations	197 896	195 255	178 028	2 362	13 582	239	5 819	38	39.4	31.2	77.6	84.8	4.3	10.6	—	—	
Motor vehicle operators	187 038	184 693	169 011	2 074	12 552	231	4 914	36	39.5	31.3	78.4	86.0	4.4	11.4	—	—	
Truck drivers	7 489	7 332	5 625	135	1 231	22	814	3	39.4	47.9	71.3	71.3	3.4	—	—	—	
Driver-sales workers	6 585	6 495	5 027	68	1 062	22	744	—	39.2	50.5	57.0	63.3	2.9	—	—	—	
Other motor vehicle operators	163	155	163	8	19	—	—	—	35.4	25	85.2	100.0	4.5	—	—	—	
Rail and water transportation occupations	741	682	462	59	150	—	70	—	41.1	45.2	71.6	79.7	7.6	—	—	—	
Material moving equipment operators	179 549	177 361	163 386	1 939	11 321	209	4 100	36	39.5	31.0	79.2	87.1	4.4	12.2	—	—	
Supervisors, material moving equipment operators	10 858	10 562	9 017	288	1 030	8	905	2	36.4	30.6	63.9	75.0	3.5	4.4	—	—	
Crane, hoist and winch operators	4 288	4 274	3 756	14	301	—	373	—	38.2	25.0	70.3	85.7	5.9	28.6	—	—	
Excavating, grading, and dozer machine operators	2 600	2 578	2 210	22	266	—	213	—	37.4	26.8	57.8	77.3	1.9	—	—	—	
Other material moving equipment operators	705	562	435	135	10	8	17	2	30.7	33.8	56.0	80.4	0.5	6.3	—	—	
Handlers, equipment cleaners, helpers, and laborers	3 265	3 148	2 516	117	453	—	302	—	34.9	28.4	61.5	66.7	2.2	—	—	—	
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	50 402	49 072	35 135	794	9 909	442	6 250	153	32.7	33.1	57.5	56.9	1.8	4.3	—	—	
Helpers, craft and production	79	79	79	—	—	—	—	—	46.2	—	74.7	—	7.6	—	—	—	
Construction laborers	2 491	2 429	1 934	33	392	21	283	13	32.9	30.7	61.4	71.0	1.5	—	—	—	
Freight, stock, and material handlers	1 985	1 964	1 564	18	294	2	212	9	31.8	32.3	61.9	55.0	2.8	—	—	—	
Garage and service station occupations, and equipment cleaners	2 448	2 374	1 642	63	590	11	231	—	40.1	37.5	57.0	77.0	1.2	—	—	—	
Hand packers and packagers	1 142	1 060	657	50	357	32	114	12	33.9	55.8	58.9	28.0	0.4	—	—	—	
Laborers, except construction	101	86	80	7	6	—	16	—	42.0	25.6	55.8	53.3	8.1	—	—	—	
Laborers, except construction	42 156	41 079	29 179	623	8 270	368	5 394	119	32.4	32.8	57.1	57.0	1.8	5.3	—	—	

¹Persons of Spanish origin may be of any race

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States												
Trucking service and warehousing												
Occupation	Total				Race				Spanish origin ¹		Median age	
	Both sexes		Male		White		Black		Male	Female	Male	Female
Employed persons 16 years and over	1 546 486	1 345 853	200 633	1 179 944	181 473	126 222	13 211	66 187	8 761	37.3	33.8	
Managerial and professional specialty occupations	120 852	104 114	16 738	99 531	15 798	2 723	557	2 620	404	41.2	38.2	
Executive, administrative, and managerial occupations	116 285	100 405	15 880	96 126	15 044	2 529	490	2 543	394	41.4	38.6	
Officials and administrators, public administration	55	55	—	—	—	—	—	9	—	51.0	—	
Financial managers	2 241	1 773	468	1 710	428	8	28	48	6	39.2	38.1	
Managers, marketing, advertising, and public relations	4 629	4 415	214	4 376	214	22	—	80	13	42.4	40.0	
Administrators, education and related fields	68	56	12	56	12	—	—	—	—	48.1	60.0	
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	
Other specified managers	2 991	2 505	486	2 358	430	—	51	108	20	40.4	39.0	
Managers and administrators, n.e.c.	93 211	82 520	10 691	79 008	10 262	2 142	238	1 983	266	41.7	40.7	
Salaries	81 471	71 976	9 495	69 126	9 068	1 705	230	1 640	260	41.4	40.0	
Self-employed	11 740	10 544	1 196	9 882	1 174	437	8	343	6	43.6	46.3	
Management related occupations	13 090	9 081	4 009	8 563	3 698	273	173	315	89	37.7	33.4	
Accountants and auditors	7 696	4 653	3 043	4 417	2 808	66	130	175	82	36.8	32.8	
Personnel, training, and labor relations specialists	2 711	2 312	399	2 121	372	153	7	96	—	39.0	36.4	
Buyers and purchasing agents	1 148	937	211	897	192	26	12	26	7	38.0	35.7	
Inspectors and compliance officers	2 423	2 119	324	1 977	24	16	—	8	—	31.1	25.0	
Other management related occupations	1 292	960	332	931	302	12	24	10	—	39.4	35.3	
Professional specialty occupations	4 567	3 709	858	3 405	754	194	67	77	10	36.5	32.1	
Engineers, architects, and surveyors	2 027	1 642	185	1 690	150	78	35	24	—	35.7	30.4	
Architects	1 981	1 798	183	1 653	148	78	35	17	—	30.4	30.0	
Engineers	388	388	—	388	29	29	—	5	—	36.0	30.4	
Civil engineers	—	—	—	—	—	—	—	—	—	—	—	
Electrical and electronic engineers	850	720	129	671	26	24	26	12	—	42.6	33.9	
Mechanical engineers	246	233	13	225	103	24	—	—	—	41.1	30.7	
Other engineers	351	333	15	366	13	17	9	—	—	32.7	30.0	
Surveyors and mapping scientists	15	15	—	15	6	—	—	—	—	39.5	25.0	
Computer systems analysts and scientists	400	320	80	302	80	6	—	23	—	36.7	31.7	
Operations and systems researchers and analysts	278	178	100	165	91	6	—	—	—	32.9	31.7	
Mathematical scientists	60	24	36	24	23	—	13	—	—	38.6	31.8	
Natural scientists	106	100	6	87	—	7	6	8	—	56.4	46.0	
Chemists, except biochemists	54	54	—	—	—	—	—	—	—	83.3	31.7	
Other natural scientists	52	46	6	39	—	—	—	—	—	36.9	40.0	
Health diagnosing occupations	35	35	—	—	—	—	—	—	—	93.0	100.0	
Health assessment and treating occupations	102	50	52	28	47	25	5	—	—	100.0	85.2	
Registered nurses	65	13	52	5	47	8	5	—	—	100.0	54.3	
Other health assessment and treating occupations	37	37	—	20	—	17	—	—	—	37.1	—	
Teachers, except postsecondary	201	166	35	166	35	—	—	11	—	90.4	57.1	
Social scientists and urban planners	203	176	27	176	27	—	—	—	—	61.5	52.9	
Social and recreation workers	29	20	9	14	27	6	—	—	—	28.1	—	
Lawyers and judges	271	239	32	223	32	16	—	—	—	65.1	68.6	
Writers, artists, entertainers, and athletes	783	504	279	450	243	50	8	4	10	100.0	100.0	
Other professional specialty occupations	72	55	17	55	17	—	—	—	—	78.2	76.5	
Technical, sales, and administrative support occupations	252 113	112 571	139 542	99 742	128 517	8 936	7 359	6 280	5 547	82.3	87.7	
Technicians and related support occupations	2 755	2 011	744	1 807	659	82	72	92	40	92.1	96.1	
Health technologists and technicians	73	50	23	50	23	—	—	—	—	100.0	100.0	
Licensed practical nurses	5	5	—	5	—	—	—	—	—	100.0	100.0	
Other health technologists and technicians	68	45	23	45	23	—	—	—	—	11.1	30.4	
Engineering and science technicians	764	629	135	594	109	24	26	27	16	87.9	98.5	
Electrical and electronic technicians	180	161	19	161	5	—	14	6	—	96.9	100.0	
Industrial and mechanical engineering technicians	84	66	18	66	18	—	—	—	—	56.1	37.7	
Drafting and surveying technicians	194	191	3	179	3	12	—	10	—	93.2	100.0	
Other engineering and science technicians	306	211	95	188	83	12	12	11	16	86.3	97.9	
Technicians, except health, engineering, and science	1 918	1 332	586	1 163	527	58	46	65	24	93.8	95.4	
Airplane pilots and navigators	115	115	—	110	—	2	—	—	—	94.8	32.2	
Air traffic controllers and broadcast equipment operators	171	146	25	146	25	—	—	9	—	100.0	100.0	
Computer programmers	221	823	398	701	361	27	29	3	13	100.0	98.7	
Other technicians, except health, engineering, and science	411	248	163	206	141	29	17	20	11	77.0	86.5	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States																
Trucking service and warehousing																
Race			Black		White		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations.....																
28 421	23 349	5 052	22 659	4 650	451	253	633	171	40.9	34.3	87.6	86.7	23.9	10.1	4.1	3.1
2 171	1 982	189	1 911	175	40	14	59	—	40.9	33.3	78.9	75.7	17.3	7.4	17.3	13.2
1 801	1 437	364	1 573	150	53	14	36	—	39.7	30.7	82.8	87.2	19.1	8.5	—	—
370	345	25	338	25	289	55	23	87	42.5	46.3	69.8	89.4	8.7	18.6	99.4	100.0
21 341	19 037	2 304	18 544	2 193	269	55	495	23	41.4	33.6	89.8	—	26.5	—	2.7	1.7
65	65	—	65	—	—	—	—	—	55.2	39.8	100.0	—	18.8	—	—	—
4 834	2 275	2 559	2 129	2 282	102	184	79	84	36.5	39.8	78.4	85.1	9.2	2.6	4.3	3.6
2 873	718	2 155	630	1 916	77	146	38	84	41.8	40.4	73.8	82.5	8.6	2.0	0.3	0.5
1 961	1 557	404	1 499	366	25	38	41	—	34.0	35.8	77.6	77.5	7.6	5.4	6.2	19.8
10	10	—	10	—	—	—	—	—	56.7	—	40.0	—	20.0	—	—	—
Sales related occupations.....																
Administrative support occupations, including clerical.....																
220 937	87 191	133 746	75 276	123 208	8 403	7 034	5 555	5 336	33.9	33.4	80.6	87.7	11.1	4.2	1.6	1.7
9 972	6 225	3 747	5 682	3 340	334	252	369	203	36.6	36.6	87.8	91.5	20.1	7.3	1.6	0.5
4 036	1 430	2 606	1 311	2 407	83	154	70	46	30.9	30.1	95.8	90.8	15.5	4.4	0.3	0.6
39 132	782	38 350	674	36 478	88	121	84	1	34.4	32.7	83.1	89.7	11.8	3.7	0.9	1.4
33 543	485	33 058	422	31 727	30	761	33	100	36.5	32.8	79.6	89.2	11.5	3.8	1.4	1.6
5 589	297	5 292	252	4 751	38	360	51	251	28.2	29.2	66.9	89.2	12.1	3.4	—	0.6
2 181	136	2 045	1 19	1 829	2	148	21	111	30.4	32.1	88.9	85.2	8.8	2.1	—	0.3
2 038	521	1 517	443	1 313	60	149	28	126	45.5	32.1	71.2	78.8	15.2	6.1	6.1	5.1
2 253	330	1 923	274	1 691	32	170	33	91	25.2	25.6	73.0	76.7	8.2	3.2	1.8	—
4 002	1 645	2 357	1 207	2 067	277	183	230	112	33.0	32.1	69.8	85.2	9.1	6.2	0.8	—
Other records processing occupations, except financial.....																
26 608	2 931	23 677	2 705	22 518	69	596	188	636	39.8	37.9	92.2	89.1	18.1	4.4	2.7	4.3
3 930	651	3 279	610	3 065	13	166	41	68	38.5	33.1	92.0	93.5	18.0	4.1	—	0.3
14 221	5 217	9 004	5 023	8 261	136	554	190	302	38.2	31.6	93.1	89.8	14.3	5.3	0.1	0.4
1 476	85	1 391	67	1 172	6	174	20	81	31.5	40.8	65.9	79.2	9.4	4.0	8.2	0.9
10 973	8 083	2 890	6 144	2 361	1 582	428	464	149	31.1	30.4	80.0	87.0	10.1	4.4	5.0	6.1
2 411	1 536	875	1 351	770	119	91	68	45	33.7	34.5	78.5	82.5	9.3	4.3	1.3	—
17 920	14 603	3 317	11 461	2 693	2 294	462	1 433	213	25.6	28.6	81.5	82.3	7.7	5.2	0.3	0.6
8 840	6 416	2 424	5 091	1 994	976	328	632	187	30.5	32.8	70.2	73.0	3.4	2.1	0.5	0.1
30 676	25 525	5 151	23 341	4 689	1 590	342	945	222	38.7	33.5	74.7	79.0	9.8	3.1	2.0	2.9
5 390	2 317	3 073	3 273	3 051	132	160	77	135	37.6	33.4	89.9	91.8	20.2	7.5	1.3	0.7
4 339	389	3 950	331	3 366	27	377	25	266	31.5	30.9	90.0	92.6	12.9	2.0	—	0.1
30 339	8 369	21 970	7 294	20 143	603	1 179	637	992	34.1	33.8	85.8	85.8	13.4	3.7	1.0	0.9
Service occupations.....																
16 771	14 136	2 635	11 210	1 794	2 308	726	1 092	154	39.1	37.8	53.3	49.5	4.3	2.3	1.3	1.9
Private household occupations.....																
4 489	4 166	323	3 698	283	325	20	223	20	44.4	40.8	63.6	57.0	8.1	—	0.3	—
4 085	3 768	317	3 327	277	304	20	213	20	45.8	40.8	61.0	56.2	8.5	—	0.2	—
404	398	6	371	6	21	—	10	—	35.9	40.0	87.7	100.0	4.0	—	1.8	—
Service protective occupations.....																
12 282	9 970	2 312	7 512	1 511	1 983	706	869	134	36.7	37.1	48.9	48.5	2.7	2.6	1.6	2.1
776	373	403	181	190	150	190	45	39	27.7	30.8	62.7	54.8	3.8	0.5	8.3	2.2
71	65	6	59	4	—	—	17	—	31.5	40.0	100.0	66.7	26.2	33.3	—	—
Health care occupations.....																
10 856	9 267	1 589	7 041	1 073	1 799	454	794	87	37.3	40.5	47.7	44.7	2.3	1.8	1.4	2.1
579	265	314	231	244	34	62	13	8	37.1	33.1	61.1	59.2	10.2	8.9	0.8	1.9
Cleaning and building service occupations, except household.....																
Personal service occupations.....																
Farming, forestry, and fishing occupations.....																
576	528	48	380	25	129	23	34	—	32.9	25.0	39.2	70.8	2.7	—	18.2	—
Precision production, craft, and repair occupations.....																
123 260	119 343	3 917	108 038	3 428	7 820	336	5 321	243	36.3	35.5	65.9	74.2	4.9	5.5	2.6	3.9
76 189	75 671	518	68 090	452	4 624	30	3 080	34	35.5	31.5	60.6	73.0	1.6	1.0	2.2	2.5
2 746	2 731	15	2 628	15	70	—	79	—	43.4	25.0	75.1	60.0	7.4	—	2.0	—
18 886	18 788	98	16 973	92	1 206	6	884	6	35.2	32.3	60.1	58.2	1.7	—	2.6	13.3
1 563	1 558	5	1 403	5	99	—	99	—	37.0	40.0	65.9	100.0	2.7	—	0.6	—
Electronic repairs, communications and industrial equipment.....																
145	129	16	123	10	6	—	5	—	38.3	39.0	79.8	68.8	3.9	—	—	—
821	814	7	768	7	33	—	22	—	34.8	25.0	72.1	28.6	1.7	—	6.8	—
52 028	51 651	377	47 003	323	3 210	38	1 991	28	35.0	31.5	59.6	78.0	1.2	1.3	2.0	—
Other mechanics and repairers.....																
3 209	3 124	85	2 768	79	209	6	305	11	36.3	37.7	63.5	27.1	4.5	12.9	4.5	5.9
808	801	7	735	7	31	—	17	—	45.6	40.0	67.5	—	13.7	—	10.8	—
641	635	6	558	6	47	—	108	5	35.5	48.0	56.9	—	5.9	—	10.0	—
612	581	31	499	31	36	—	51	—	37.7	37.0	74.0	—	1.7	—	0.9	—
251	251	—	216	—	20	—	95	6	30.2	32.0	58.0	54.8	2.9	35.5	1.0	16.1
502	468	34	385	28	75	6	—	—	37.7	38.9	81.3	3.6	0.6	—	1.3	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample. See introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States																
Trucking service and warehousing																
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female		
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		
Employed persons 16 years and over—Con																
Precision production, craft, and repair occupations—Con																
Extraction occupations																
Precision production occupations																
Supervisors, production occupations																
Precision metalworking occupations																
Tool and die makers																
Machinists																
Sheet metal workers																
Other precision metal workers																
Precision textile, apparel, and furnishings machine workers																
Precision food production occupations																
Precision inspectors, testers, and related workers																
Plant and system operators																
Other precision production occupations																
Operators, fabricators, and laborers																
Machine operators, assemblers, and inspectors																
Machine operators and tenders, except precision																
Metalworking and plastic working machine operators																
Fabricating machine operators, n.e.c.																
Metal and plastic processing and woodworking machine operators																
Printing machine operators																
Textile machine operators																
Textile sewing machine operators																
Laundry and dry cleaning machine operators																
Packaging and filling machine operators																
Furnace, kiln, and oven operators, except food																
Other specified machine operators																
Miscellaneous and not specified machine operators																
Fabricators, assemblers, and hand working occupations																
Welders and cutters																
Solderers and brazers																
Assemblers																
Hand working occupations																
Production inspectors, testers, samplers, and weighers																
Graders and sorters, except agricultural																
Other production inspectors, testers, samplers, and weighers																
Transportation and material moving occupations																
Transportation occupations																
Motor vehicle operators																
Truck drivers																
Driver-sales workers																
Other motor vehicle operators																
Rail and water transportation occupations																
Material moving equipment operators																
Supervisors, material moving equipment operators																
Crane, hoist and winch operators																
Excavating, grading, and dozer machine operators																
Other material moving equipment operators																
Handlers, equipment cleaners, helpers, and laborers																
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.																
Helpers, craft and production																
Construction laborers																
Freight, stock, and material handlers																
Gauge and service station occupations, and equipment cleaners																
Hand packers and packagers																
Laborers, except construction																

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																	
Other transportation																	
Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
Total		White		Black		Male		Female		Male		Female		Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
2 149 956	1 539 712	610 244	1 226 359	491 633	240 949	91 876	93 366	29 471	41.3	34.8	80.1	87.2	12.5	12.3	2.5	1.3	
222 996	165 737	56 659	149 558	50 788	8 695	3 405	7 422	2 441	43.7	40.2	92.1	91.4	34.1	20.8	3.4	3.0	
179 327	129 398	49 988	116 611	45 101	6 971	2 721	6 159	2 203	43.5	41.2	91.8	91.0	32.0	18.8	3.7	3.1	
1 547	3 098	862	2 769	918	123	57	211	58	49.1	50.5	93.3	84.5	24.3	16.9	—	—	
7 808	6 147	1 661	5 705	1 566	123	67	330	157	41.2	36.5	96.3	95.1	56.3	23.9	—	—	
219	133	86	116	79	17	6	330	157	41.7	34.7	97.2	94.6	43.2	35.6	1.4	2.7	
36 246	21 513	14 733	20 345	14 153	746	278	528	227	51.0	51.6	90.5	82.3	16.9	6.0	—	—	
98 009	76 890	21 119	49 056	19 204	3 944	1 039	4 036	1 082	43.5	38.4	90.8	93.6	31.6	22.0	0.4	0.2	
91 860	72 375	19 485	64 910	17 645	3 808	1 015	3 773	982	43.3	37.8	91.5	94.1	32.2	22.4	5.8	6.6	
6 149	4 515	1 634	4 146	1 559	136	24	263	100	47.1	46.0	79.5	87.1	21.4	16.8	98.0	85.6	
31 947	20 763	11 184	17 762	9 016	1 928	1 303	1 031	665	41.4	34.2	94.8	96.7	42.4	26.9	1.0	0.5	
14 622	8 375	6 385	7 031	5 049	514	372	572	445	39.3	34.4	98.1	97.6	56.6	27.8	1.3	0.7	
8 465	5 695	2 770	4 699	2 230	864	422	237	149	43.1	35.9	91.7	95.9	27.0	26.6	0.5	—	
2 853	2 173	680	1 945	572	139	84	105	27	41.8	37.8	93.2	93.2	31.0	19.0	0.3	0.7	
3 051	2 761	290	2 374	245	301	45	66	22	42.5	32.6	92.2	91.4	39.5	32.8	0.2	—	
2 956	1 897	1 059	1 713	920	110	105	51	22	42.2	33.2	95.1	97.2	44.5	25.3	3.1	0.6	
42 869	36 198	6 671	32 947	5 687	1 724	684	1 263	238	40.2	33.7	92.9	95.0	41.9	36.0	2.4	2.7	
19 372	18 930	442	17 306	372	746	52	614	214	45.0	33.9	90.3	91.6	44.8	31.0	1.8	2.3	
384	372	12	269	12	38	—	29	—	43.6	45.0	100.0	50.0	87.4	50.0	—	—	
18 717	18 293	424	16 775	360	695	46	585	—	45.0	34.1	90.1	94.1	44.1	30.9	1.7	2.4	
1 925	1 898	27	1 619	19	86	8	75	—	41.4	36.9	98.4	100.0	72.8	51.9	1.0	—	
1 656	1 626	30	1 404	17	166	—	54	—	46.1	38.3	96.8	100.0	53.4	63.3	0.4	—	
1 913	1 713	200	1 483	169	160	31	40	—	47.6	34.2	94.7	100.0	35.9	18.0	0.4	—	
1 001	954	47	837	41	57	6	23	—	47.1	36.7	88.5	100.0	41.8	31.9	—	—	
12 222	12 102	120	11 432	114	226	1	393	—	44.8	30.0	97.2	79.2	39.8	39.2	2.2	8.3	
265	265	6	252	—	13	6	—	—	41.2	30.0	92.1	—	33.6	—	11.3	—	
2 299	1 722	577	1 556	484	85	60	60	12	38.0	33.2	98.0	100.0	45.9	47.8	—	—	
1 565	1 244	321	1 061	240	144	70	148	14	39.8	35.0	95.1	91.0	39.4	34.3	—	—	
581	340	241	272	192	34	37	12	16	43.6	32.6	94.4	97.5	32.6	20.7	—	—	
580	479	101	475	84	4	17	—	—	47.1	34.0	96.7	94.1	63.5	36.6	4.4	—	
166	119	47	119	40	—	7	—	—	47.3	32.3	95.0	100.0	62.2	57.4	—	—	
414	360	54	356	44	4	10	—	—	47.0	37.5	97.2	88.9	63.9	18.5	5.8	—	
158	135	23	135	23	—	—	—	—	50.6	44.2	100.0	100.0	71.1	47.8	8.1	—	
5 209	3 797	1 412	3 633	1 245	114	135	158	19	26.8	34.2	97.2	97.5	13.6	24.1	0.9	1.5	
835	106	779	85	587	15	119	—	15	40.8	46.9	100.0	99.3	34.9	35.4	6.6	1.9	
4 374	3 691	683	3 548	658	99	16	158	4	26.6	28.4	97.1	95.6	13.0	12.0	0.8	1.0	
4 422	3 696	726	3 355	610	181	94	110	20	39.0	34.2	93.3	96.3	29.4	33.7	6.7	5.4	
1 434	1 019	415	920	379	51	32	21	—	36.8	31.6	99.2	100.0	73.7	56.6	1.5	4.0	
265	92	173	73	130	19	22	30	—	49.3	38.9	94.6	70.5	44.6	13.9	0.2	—	
1 328	1 058	270	996	239	53	31	9	26	40.5	32.2	100.0	95.2	98.0	84.4	0.6	2.2	
5 230	3 476	1 754	3 012	1 512	245	108	225	94	39.6	33.3	93.6	94.1	39.6	35.1	5.9	5.5	
426	210	216	153	177	48	26	6	7	39.7	37.7	83.8	87.0	37.6	25.9	—	—	
1 078 206	685 363	392 843	568 337	312 887	88 848	63 066	35 535	19 124	42.0	34.8	88.3	90.2	13.8	11.4	0.6	0.8	
84 659	78 566	6 093	74 826	5 261	2 067	565	1 711	274	38.8	30.9	95.8	91.5	39.6	21.4	1.7	1.7	
8 777	6 471	2 306	6 025	2 181	260	92	72	45	25.7	28.7	91.2	91.2	5.8	8.6	1.5	1.3	
1 172	51	121	45	114	6	7	—	2	49.3	33.6	70.6	84.3	—	—	15.7	—	
8 605	6 420	2 165	5 980	2 067	254	85	174	43	25.6	28.4	91.3	91.5	5.9	8.7	1.4	1.4	
8 316	7 519	797	6 253	555	832	162	289	53	41.1	32.3	87.9	92.8	9.8	14.2	0.7	1.5	
4 326	4 191	135	3 402	91	543	28	138	5	39.9	34.0	95.4	95.6	9.9	9.6	0.3	—	
256	237	19	201	19	15	—	29	—	45.8	37.5	65.4	100.0	19.8	—	—	—	
1 641	1 335	306	1 126	217	99	41	75	25	37.0	29.4	92.1	92.2	16.1	16.3	2.7	2.3	
2 093	1 756	337	1 524	228	175	93	47	23	47.7	34.8	69.8	92.0	12.8	14.8	0.5	1.3	
67 566	64 576	2 990	62 548	2 525	975	311	1 248	176	39.8	32.5	97.2	91.5	46.5	46.5	1.8	2.0	
58 233	57 533	700	56 321	676	488	19	942	43	40.0	32.0	97.7	95.0	48.7	32.9	1.9	7.6	
1 785	1 311	474	1 204	380	81	23	26	26	46.8	37.3	98.5	91.3	19.3	4.2	0.4	1.3	
4 257	3 070	1 187	2 733	986	150	106	194	83	33.9	30.6	93.8	96.8	42.8	47.1	0.8	—	
3 291	2 662	2 629	2 290	483	267	105	89	24	39.6	34.1	92.0	92.8	16.0	21.8	0.5	—	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States													
Other transportation													
Employed persons 16 years and over—Con													
Technical, sales, and administrative support occupations—Con													
Sales occupations													
Supervisors and proprietors, sales occupations													
Sales representatives, finance and business services													
Sales representatives, commodities, except retail													
Sales workers, retail and personal services													
Cashiers													
Other sales occupations, retail and personal services													
Sales related occupations													
Administrative support occupations, including clerical													
Supervisors, administrative support occupations													
Computer equipment operators													
Secretaries, stenographers, and typists													
Stenographers and typists													
Receptionists													
Other information clerks													
File clerks													
Other records processing occupations, except financial													
Bookkeepers, accounting, and auditing clerks													
Payroll and timekeeping clerks													
Other financial records processing occupations													
Telephone operators													
Mail and message distributing occupations													
Production coordinators and expeditors													
Traffic, shipping, and receiving clerks													
Stock and inventory clerks													
Other material recording, scheduling, and distributing clerks													
Adjusters and investigators													
Data-entry keyers													
Other administrative support occupations													
Service occupations													
Private household occupations													
Protective service occupations													
Guards													
Other protective service occupations													
Service occupations, except protective and household													
Food preparation and service occupations													
Health service occupations													
Cleaning and building service occupations, except household													
Personal service occupations													
Farming, forestry, and fishing occupations													
Precision production, craft, and repair occupations													
Mechanics and repairers													
Supervisors, mechanics and repairers													
Automobile mechanics, including body													
Industrial machinery repairers													
Electronic repairers, communications and industrial equipment													
Heating, air conditioning, and refrigeration mechanics													
Other mechanics and repairers													
Construction trades													
Supervisors, construction occupations													
Carpenters													
Electricians													
Painters, construction and maintenance													
Plumbers, pipefitters, and steamfitters													
Other construction trades													

Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Other transportation														Percent self-employed	
	Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college			
	Total		White		Black											
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male		
Employed persons 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extraction occupations.....	439	433	6	345	6	75	262	20	161	38.4	25—	76.0	100.0	12.9	100.0	
Precision production occupations.....	29 123	27 210	1 913	23 578	1 534	2 557	1 555	1 681	584	44.3	38.2	80.1	85.7	8.6	8.6	
Supervisors, production occupations.....	14 828	13 518	1 310	11 714	1 087	1 429	1 155	803	372	44.1	37.2	81.2	92.2	11.8	14.5	
Precision metalworking occupations.....	5 802	5 686	116	4 910	98	513	18	424	42.6	42.4	42.6	76.7	73.3	3.2	9.5	
Tool and die makers.....	147	147	—	141	—	—	—	—	—	51.2	44.6	83.0	73.3	—	—	
Machinists.....	3 468	3 415	53	2 901	35	357	18	246	42.6	41.8	42.5	77.2	62.3	3.4	0.6	
Sheet metal workers.....	1 735	1 706	29	1 559	29	58	—	140	42.5	43.9	42.5	62.1	62.1	2.3	11.3	
Other precision metal workers.....	452	418	34	309	34	98	—	38	39.3	34.1	39.3	71.8	100.0	6.2	17.2	
Precision textile, apparel, and furnishings machine workers.....	361	261	100	169	67	64	19	18	39.3	41.7	39.9	57.5	63.0	7.3	—	
Precision food production occupations.....	234	232	2	182	2	37	—	12	38.3	38.3	40.0	53.4	100.0	—	4.0	
Precision inspectors, testers, and related workers.....	4 034	3 921	113	3 492	69	202	44	159	45.8	48.3	45.8	85.7	70.8	4.7	—	
Plant and system operators.....	3 501	3 347	154	2 881	129	306	21	229	38.8	44.0	38.8	79.5	83.8	10.8	—	
Other precision production occupations.....	363	245	118	230	82	6	5	36	38.8	33.5	38.8	60.8	61.9	4.5	—	
Operators, fabricators, and laborers.....																
Machine operators, assemblers, and inspectors.....	512 568	432 388	80 180	305 571	62 359	104 315	14 828	31 934	715	39.5	36.8	65.5	70.7	6.0	3.3	
Machine operators and tenders, except precision.....	22 837	19 983	2 854	15 172	1 720	3 754	890	1 720	353	36.9	32.8	67.6	72.5	4.7	6.4	
Metalworking and plastic working machine operators.....	11 793	9 830	1 963	7 072	1 133	2 143	640	997	262	35.6	32.3	74.8	4.8	7.2	1.0	
Fabricating machine operators, n.e.c.....	610	568	42	504	16	50	19	54	7	41.6	25—	69.5	83.3	3.7	—	
Metal and plastic processing and woodworking machine operators.....	65	43	22	18	22	18	—	7	—	39.7	30.0	86.0	100.0	16.3	—	
Printing machine operators.....	478	452	26	337	26	103	—	12	10	40.3	31.4	52.4	69.2	4.9	—	
Textile machine operators.....	667	523	144	420	110	80	28	28	—	36.3	32.2	91.2	69.4	4.0	—	
Textile sewing machine operators.....	66	66	—	46	—	20	—	—	—	56.4	38.2	—	74.2	9.1	12.9	
Laundry and dry cleaning machine operators.....	79	48	31	20	8	28	23	—	—	—	—	—	—	—	—	
Packaging and filling machine operators.....	44	17	27	14	27	—	—	9	—	41.1	36.9	17.6	70.4	—	17.6	
Furnace, kiln, and oven operators, except food.....	104	75	29	52	12	5	17	5	5	37.2	25—	88.0	34.5	—	—	
Other specified machine operators.....	656	644	12	429	12	184	—	82	—	48.0	40.0	61.0	100.0	3.3	—	
Miscellaneous and not specified machine operators.....	1 087	927	160	660	110	146	28	139	45	36.0	30.9	60.4	64.4	6.3	9.4	
Fabricators, assemblers, and hand working occupations.....	7 937	6 467	1 470	4 572	790	1 509	525	661	195	34.1	32.8	68.1	76.6	4.4	1.6	
Welders and cutters.....	7 238	6 650	588	5 215	370	1 132	172	544	83	35.3	32.7	62.7	63.9	1.7	0.9	
Solders and brazers.....	4 657	4 357	305	3 710	27	718	5	340	—	34.8	31.8	60.0	65.7	0.9	1.2	
Assemblers.....	30	11	11	—	—	—	—	—	—	50.0	26.1	100.0	76.0	—	—	
Hand working occupations.....	1 923	1 435	488	1 055	313	306	136	152	61	35.1	32.7	72.1	61.9	3.6	8.6	
Production inspectors, testers, samplers, and weighers.....	593	553	40	445	19	108	17	52	8	40.3	42.7	61.5	80.0	3.6	—	
Graders and sorters, except agricultural.....	3 806	3 503	303	2 885	217	479	78	200	37.4	44.2	37.4	77.6	74.3	9.9	—	
Other production inspectors, testers, samplers, and weighers.....	297	196	101	115	65	62	28	13	8	35.0	40.7	74.5	76.2	—	—	
Fabricators, assemblers, and hand working occupations.....	3 509	3 307	202	2 770	152	417	50	187	—	44.5	35.7	77.8	73.3	10.5	0.5	
Transportation and material moving occupations.....																
Transportation occupations.....	393 370	324 161	69 209	232 393	55 825	75 697	11 187	22 176	2 768	40.3	37.1	65.2	71.3	6.5	3.2	
Motor vehicle operators.....	373 198	304 411	68 787	219 248	55 523	70 182	11 114	20 592	2 749	40.1	37.1	65.2	71.4	6.6	3.2	
Truck drivers.....	317 261	249 754	67 507	172 519	54 559	64 216	10 881	17 864	2 654	40.4	37.1	66.8	71.4	6.3	3.1	
Driver-sales workers.....	31 089	28 962	2 127	21 366	1 684	6 457	376	1 855	186	38.2	37.0	65.2	72.7	3.6	6.9	
Other motor vehicle operators.....	734	660	74	464	59	74	—	19	—	38.3	37.1	63.2	78.4	4.7	—	
Rail and water transportation occupations.....	285 438	220 132	65 306	150 689	52 816	57 595	10 502	15 990	2 463	40.6	37.1	67.1	71.4	2.9	10.3	
Material moving equipment operators.....	55 937	54 657	1 280	46 779	964	5 966	233	2 728	95	38.9	34.0	61.6	70.3	8.0	3.6	
Supervisors, material moving equipment operators.....	20 172	19 750	422	13 145	302	5 515	73	1 584	19	42.7	30.7	54.0	52.6	4.4	0.7	
Crane, hoist and winch operators.....	3 589	3 522	67	2 880	60	545	7	215	—	47.0	40.8	67.0	74.6	9.8	0.5	
Excavating, grading, and dozer machine operators.....	1 951	1 927	24	1 441	17	416	—	151	—	40.2	55.8	58.9	70.8	3.7	12.5	
Other material moving equipment operators.....	377	350	27	310	27	35	—	28	—	38.9	35.5	45.4	85.2	1.7	—	
Handlers, equipment cleaners, helpers, and laborers.....	14 255	13 951	304	8 514	198	4 519	66	1 190	19	42.1	28.2	50.2	43.4	3.2	0.7	
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.....	96 361	88 244	8 117	58 006	4 814	24 864	2 751	8 017	594	37.4	35.2	66.4	65.2	4.5	0.5	
Helpers, craft and production.....	1 899	1 787	112	1 463	76	246	36	66	—	40.6	55.6	90.6	84.8	13.9	—	
Construction laborers.....	1 887	1 793	94	1 240	66	419	28	188	12	32.5	26.1	58.2	75.5	2.3	5.3	
Freight, stock, and material handlers.....	758	739	19	485	12	191	7	75	—	34.3	49.1	56.3	52.6	3.1	—	
Garage and service station attendants, and equipment cleaners.....	64 965	61 350	3 615	39 820	1 838	18 164	1 647	5 322	130	38.9	34.2	68.1	78.2	4.6	0.4	
Hand packers and packagers.....	8 264	6 780	1 484	4 505	905	1 696	445	686	117	31.1	37.2	61.1	53.8	4.5	2.1	
Labors, except construction.....	2 604	1 562	1 042	1 117	653	376	207	376	227	33.2	33.1	58.1	49.6	3.0	1.1	
	15 984	14 233	1 751	9 376	1 264	3 914	381	1 304	108	33.8	37.3	60.7	55.8	3.3	0.6	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Communications												
United States												
Both sexes	Race				Black		Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over	1 440 868	774 774	666 094	699 927	540 815	100 858	30 641	32 585	35.8	33.2	92.6	91.9
Managerial and professional specialty occupations	330 070	229 029	101 041	213 323	86 629	11 390	6 394	3 703	37.7	33.6	96.2	95.5
Executive, administrative, and managerial occupations	158 799	100 841	57 948	95 541	49 797	3 733	2 170	1 953	42.1	30.6	97.0	94.8
Officials and administrators, public administration	4 371	3 045	1 331	2 876	1 161	128	40	78	40.0	38.3	100.0	100.0
Financial managers	13 048	10 294	2 754	9 997	2 527	244	189	88	39.4	32.7	98.1	96.8
Managers, marketing, advertising, and public relations	213	141	72	110	49	18	5	—	43.8	30.9	100.0	100.0
Administrators, education and related fields	6 938	4 236	2 702	3 891	2 303	281	91	102	44.6	38.4	95.9	96.5
Managers, medicine and health	104 192	68 664	35 528	65 445	31 115	3 743	1 386	992	43.0	37.5	96.7	93.8
Managers and administrators, n.e.c.	103 233	67 870	35 363	64 657	30 950	3 743	1 379	992	43.0	37.5	96.8	93.8
Self-employed	959	794	165	788	165	—	7	—	45.1	46.2	88.2	97.8
Management related occupations	30 021	14 557	15 564	13 218	12 635	888	459	695	39.3	34.9	97.0	96.1
Accountants and auditors	10 601	5 270	5 331	4 721	4 283	378	164	315	34.5	33.5	99.3	96.8
Personnel, training, and labor relations specialists	12 387	5 328	7 059	4 922	5 748	302	1 047	277	43.1	37.5	95.9	95.3
Buyers and purchasing agents	1 397	893	504	825	427	47	44	9	42.2	32.1	91.6	92.3
Inspectors and compliance officers	344	268	76	242	63	19	6	7	44.1	36.5	82.5	97.4
Other management related occupations	5 292	2 698	2 594	2 508	2 114	142	81	87	39.2	34.5	97.8	97.5
Professional specialty occupations	171 271	128 188	43 083	117 782	36 832	6 782	4 224	1 748	33.7	30.8	95.5	96.3
Engineers, architects, and surveyors	56 245	47 066	9 179	44 118	7 800	1 605	1 250	400	41.0	33.2	97.7	97.7
Architects	229	194	35	177	28	7	14	7	38.5	31.6	100.0	100.0
Engineers	56 000	46 863	9 137	43 932	7 765	1 598	1 236	393	41.0	33.2	97.7	97.7
Civil engineers	1 233	1 094	139	1 032	123	31	34	—	42.1	28.9	97.5	100.0
Electrical and electronic engineers	49 659	41 330	8 329	38 763	7 070	1 397	1 068	372	41.1	33.4	97.7	97.6
Industrial engineers	1 089	978	111	922	101	37	22	17	43.1	29.2	94.9	100.0
Mechanical engineers	685	642	43	579	43	27	31	—	38.8	25	98.1	100.0
Other engineers	3 334	2 819	515	2 636	428	83	81	4	39.1	35.0	98.9	98.4
Surveyors and mapping scientists	16	9	7	9	7	—	—	—	25	—	100.0	100.0
Computer systems analysts and scientists	5 832	3 916	1 916	3 555	1 578	221	158	66	33.6	31.5	98.5	98.1
Operations and systems researchers and analysts	2 480	1 526	914	1 422	775	79	33	6	37.6	33.6	98.9	97.4
Mathematical scientists	665	326	339	315	281	51	5	5	40.5	31.6	97.9	100.0
Natural scientists	1 066	780	286	740	270	15	15	29	35.7	30.2	98.2	98.3
Chemists, except biochemists	202	103	99	98	91	—	—	21	43.4	32.6	100.0	100.0
Other natural scientists	864	677	187	642	179	15	15	8	34.6	29.1	97.9	97.3
Health diagnosing occupations	237	191	46	191	46	—	—	—	46.6	48.3	100.0	100.0
Health assessment and treating occupations	545	112	433	112	388	—	—	5	35.0	42.2	91.1	97.0
Registered nurses	444	27	417	27	372	—	—	5	44.4	42.6	100.0	96.9
Other health assessment and treating occupations	101	85	16	85	16	—	—	—	29.6	33.9	88.2	100.0
Teachers, except postsecondary	1 922	734	1 188	640	998	46	13	—	37.1	34.5	98.1	96.8
Social scientists and urban planners	4 680	2 803	1 877	2 511	1 517	168	77	77	33.8	31.2	99.5	97.2
Social and recreation workers	1 388	1 088	290	1 080	30	44	25	18	36.1	34.7	100.0	95.4
Lawyers and judges	1 420	1 080	337	1 040	254	33	2 591	1 101	38.4	32.9	97.8	98.0
Writers, artists, entertainers, and athletes	94 519	68 840	25 659	62 557	22 554	4 454	57	39	30.5	29.4	93.6	95.5
Other professional specialty occupations	1 522	721	801	521	382	156	57	39	32.9	31.6	91.8	95.1
Technical, sales, and administrative support occupations	722 299	208 336	513 963	183 191	413 952	17 114	9 582	26 033	34.7	33.1	94.3	92.0
Technicians and related support occupations	73 492	56 095	17 397	49 897	14 251	3 810	2 202	1 022	34.5	32.3	95.4	95.0
Health technologists and technicians	144	52	92	52	79	—	—	20	30.1	32.3	100.0	100.0
Licensed practical nurses	25	25	—	—	—	—	—	—	—	28.8	—	—
Other health technologists and technicians	119	52	67	52	54	—	—	20	30.1	33.6	100.0	100.0
Engineering and science technicians	23 537	16 736	6 801	14 889	5 710	1 065	718	485	34.8	33.1	95.0	93.5
Electrical and electronic technicians	12 552	11 318	1 034	10 286	896	864	524	74	35.0	30.4	95.1	93.4
Industrial and mechanical engineering technicians	6 910	5 216	1 694	4 522	1 316	6	4	—	37.1	34.7	95.3	93.1
Drafting and surveying technicians	6 714	2 379	4 335	2 176	3 548	262	116	244	37.9	33.2	95.9	100.0
Other engineering and science technicians	3 901	2 379	1 522	2 186	1 229	113	176	162	37.9	35.5	94.1	92.9
Technicians, except health, engineering, and science	49 811	39 307	10 504	34 956	8 462	2 745	1 484	517	34.5	30.2	95.6	95.9
Airplane pilots and navigators	231	201	—	218	13	13	2	—	38.1	—	97.0	—
Air traffic controllers and broadcast equipment operators	13 775	11 623	2 152	10 449	1 757	860	373	59	33.4	27.3	92.4	92.4
Computer programmers	9 266	4 002	5 264	4 541	3 312	486	149	184	31.3	29.5	99.8	98.2
Other technicians, except health, engineering, and science	26 539	22 189	4 350	19 748	3 393	1 386	960	274	36.2	31.7	95.6	95.6

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States														
Communications														
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		Black											
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.														
Technical, sales, and administrative support occupations—Con.														
Sales occupations	55 268	28 900	26 368	26 646	22 820	1 708	2 888	884	1 114	34.2	32.1	40.7	22.6	0.8
Supervisors and proprietors, sales occupations	2 788	2 002	786	1 907	712	63	56	66	118	39.6	38.7	30.0	17.0	1.3
Salaried	2 742	1 975	767	1 880	693	63	56	61	118	39.6	38.7	29.7	17.5	—
Self-employed	46	27	19	27	18	129	—	739	752	34.0	31.6	51.9	—	100.0
Sales representatives, finance and business services	46 050	25 311	20 739	23 363	18 129	1 514	2 122	739	752	34.0	31.6	42.1	26.6	0.6
Sales representatives, commodities, except retail	6 219	1 192	27	1 192	27	—	—	—	—	36.6	35.0	42.2	22.2	0.3
Sales workers, retail and personal services	6 149	1 366	4 783	1 135	3 919	131	710	79	344	31.6	35.0	30.4	6.1	0.1
Others	3 946	253	3 693	1 172	2 969	63	602	17	249	32.0	36.4	19.8	3.0	2.2
Other sales occupations, retail and personal services	2 203	1 113	1 090	963	950	68	108	62	95	31.5	31.6	32.8	16.8	0.4
Sales related occupations	62	29	33	29	33	—	—	—	—	50.0	45.8	48.3	18.2	—
Administrative support occupations, including clerical	593 539	123 341	470 198	106 648	376 881	11 596	75 579	6 496	23 897	35.0	33.2	16.3	5.7	0.1
Supervisors, administrative support occupations	93 421	53 247	40 174	49 448	33 512	2 734	5 692	1 464	1 374	42.4	37.6	16.5	9.5	0.2
Computer equipment operators	14 002	4 710	9 292	3 953	7 015	529	1 858	284	536	30.4	32.6	18.0	8.9	0.1
Secretaries, stenographers, and typists	65 375	1 578	63 797	1 182	53 752	227	7 793	1 67	3 287	29.5	31.3	21.6	5.8	0.3
Secretaries	46 279	947	45 648	505	40 235	55	4 022	52	2 143	31.7	31.9	32.0	6.4	0.1
Stenographers and typists	19 096	947	18 149	677	13 517	174	3 771	115	1 144	28.4	29.6	14.7	4.3	0.5
Receptionists	5 302	240	5 062	199	4 023	18	822	7	400	28.5	29.6	15.4	5.7	—
Other information clerks	13 040	2 606	10 434	2 184	8 094	334	1 840	143	88.8	33.0	33.0	25.6	6.1	0.2
File clerks	4 092	574	3 518	460	2 515	78	860	47	219	27.6	33.4	10.1	4.9	0.2
Other records processing occupations, except financial	76 832	11 177	65 655	9 437	53 372	1 089	9 996	851	3 440	29.9	31.9	20.6	8.3	0.1
Bookkeepers, accounting, and auditing clerks	19 548	1 843	17 705	1 463	15 329	247	1 811	99	809	32.3	36.3	32.1	5.0	0.2
Payroll and timekeeping clerks	4 313	366	4 071	268	3 333	24	472	5	257	28.4	33.9	19.2	4.4	—
Other financial records processing occupations	6 511	512	5 545	377	4 535	97	868	84	330	34.7	34.2	27.4	3.4	—
Telephone operators	136 791	15 728	121 063	12 731	94 013	2 021	22 528	1 295	6 239	27.4	33.4	10.1	3.3	—
Mail and message distributing occupations	5 957	3 149	2 808	2 123	1 998	720	672	345	145	28.4	31.9	27.9	6.7	1.7
Production coordinators and expeditors	8 886	2 370	6 516	2 090	5 418	219	901	76	273	31.5	32.4	27.6	11.8	0.3
Traffic, shipping, and receiving clerks	2 881	1 021	1 760	2 708	450	249	239	140	82	32.0	32.4	3.6	4.9	0.7
Stock and inventory clerks	7 539	4 141	3 418	3 232	2 715	143	340	27	242	38.1	33.9	7.7	2.0	0.1
Other material recording, scheduling, and distributing clerks	10 130	2 805	7 825	2 101	6 410	134	1 219	122	258	30.7	33.9	24.7	5.0	0.2
Adjusters and investigators	8 627	2 992	6 635	2 558	3 363	287	1 047	206	377	33.5	32.9	13.9	11.9	0.2
Date-entry keyers	1 836	1 489	7 349	1 146	3 480	243	1 146	89	520	35.0	30.7	4.9	4.9	0.2
Other administrative support occupations	100 464	12 893	87 571	10 551	68 550	1 603	14 966	869	4 719	31.9	34.1	18.1	4.9	0.3
Service occupations	16 993	10 335	6 658	7 471	4 557	2 350	1 809	707	307	43.3	46.2	5.9	2.6	0.6
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	2 680	2 086	594	1 467	433	551	141	110	6	47.4	33.9	11.9	4.5	—
Guards	2 462	1 912	550	1 310	396	545	134	94	6	47.6	34.6	9.9	4.9	—
Other protective service occupations	218	174	44	157	37	6	7	16	6	44.8	30.2	33.9	—	—
Service occupations, except protective and household	14 313	8 249	6 064	6 004	4 124	1 799	1 668	597	301	42.3	47.1	4.4	2.4	—
Food preparation and service occupation	1 528	482	1 046	6 392	853	47	152	41	27	30.9	41.3	11.6	2.6	0.7
Health service occupations	113	14	99	14	83	—	—	—	—	45.0	47.8	—	14.1	—
Cleaning and building service occupations, except household	11 458	7 256	4 202	5 180	2 708	1 697	1 318	460	235	44.1	48.8	2.9	1.1	0.6
Personal service occupations	1 214	497	717	418	2 480	55	182	96	39	35.5	34.7	20.1	8.4	2.4
Farming, forestry, and fishing occupations	327	291	36	220	20	60	6	6	—	39.4	52.5	8.2	—	2.1
Precision production, craft, and repair occupations	341 990	308 239	33 751	280 702	27 598	18 044	4 750	12 939	1 933	35.2	32.6	3.6	6.3	0.1
Mechanics and repairers	317 217	288 149	29 068	262 249	23 831	17 033	4 030	12 266	1 664	34.9	32.2	3.2	5.4	0.5
Supervisors, mechanics and repairers	11 801	11 061	740	10 525	628	304	71	263	63	42.3	37.4	6.8	14.1	0.1
Automobile mechanics, including body	2 816	2 683	133	2 301	104	320	29	134	—	38.6	32.2	2.6	—	0.6
Industrial machinery repairers	1 629	1 538	91	1 411	80	97	11	55	5	40.3	33.3	5.0	5.5	—
Electronic repairers, communications and industrial equipment	16 386	15 746	640	14 277	541	827	62	876	37	29.7	29.6	5.8	5.0	2.2
Heating, air conditioning, and refrigeration mechanics	757	734	23	625	17	76	6	21	—	43.3	32.7	5.4	—	—
Other mechanics and repairers	283 828	256 387	27 441	233 110	22 461	15 409	3 851	10 917	1 559	34.9	32.1	2.9	5.3	0.3
Construction trades	11 700	10 743	957	9 869	774	523	138	387	31	37.5	38.8	5.4	20.3	1.5
Supervisors, construction occupations	5 617	5 418	199	5 213	169	86	30	143	—	41.7	34.8	6.7	15.1	0.4
Carpenters	653	602	51	585	31	129	20	38	—	35.1	34.7	7.1	11.8	—
Electricians	1 713	1 494	219	1 302	171	129	36	53	14	37.5	31.7	4.9	9.1	1.7
Painters, construction and maintenance	188	157	31	138	16	12	15	19	—	35.7	30.3	61.8	74.2	—
Plumbers, pipefitters, and steamfitters	422	302	120	297	97	11	—	—	—	40.2	61.9	10.8	—	—
Other construction trades	3 107	2 952	155	2 584	88	259	37	134	17	30.8	29.2	2.8	45.7	3.1

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																
Employed persons 16 years and over—Con																
	Race						Spanish origin		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
			Male	Female	Male	Female										
Both sexes	Male	Female	Male	Female	Male	Female										
Precision production, craft, and repair occupations—Con																
Extraction occupations	76	55	21	15	6	6	7	—	38.5	30.0	85.5	100.0	11.6	9.1	9.1	—
Precision production occupations	12 997	9 292	3 705	2 978	482	576	279	238	42.9	36.6	90.0	91.8	15.8	9.1	0.2	—
Supervisors, production occupations	8 133	5 710	2 423	1 951	205	406	177	166	43.7	38.4	92.3	94.2	9.9	11.8	0.1	—
Precision metalworking occupations	771	645	126	103	65	23	28	—	38.2	34.4	73.0	83.3	0.9	4.8	—	—
Tool and die makers	128	114	14	14	—	—	—	—	36.2	30.0	41.2	100.0	—	20.7	—	—
Machinists	369	340	29	23	49	6	18	—	39.2	43.3	64.4	55.2	1.8	—	—	—
Sheet metal workers	30	30	—	—	—	—	—	—	32.1	—	76.7	—	—	—	—	—
Other precision metal workers	244	161	83	66	16	17	10	—	33.0	34.0	77.6	90.4	—	—	—	—
Precision textile, apparel, and furnishings machine workers	29	6	23	—	—	—	—	—	59.0	33.1	100.0	56.4	—	—	—	—
Precision food production occupations	38	28	10	—	—	—	—	—	46.8	40.0	64.3	50.0	21.4	—	—	—
Precision inspectors, testers, and related workers	2 026	1 251	775	601	125	116	28	30	43.3	32.9	93.5	89.3	2.7	2.7	—	—
Plant and system operators	1 641	1 434	207	139	68	207	46	23	42.8	37.0	86.0	93.7	8.6	8.2	0.3	—
Other precision production occupations	359	218	141	83	19	31	—	19	31.9	29.0	91.7	76.6	2.8	5.7	4.1	—
Operators, fabricators, and laborers	29 189	18 544	10 645	8 059	2 735	2 165	1 013	609	33.6	34.1	74.5	76.8	6.0	3.6	0.6	0.1
Machine operators, assemblers, and inspectors	14 045	6 921	7 124	5 307	1 005	478	340	437	34.8	33.7	80.9	76.2	8.4	3.6	0.2	0.1
Machine operators and tenders, except precision	6 987	3 569	3 418	2 484	573	776	167	199	32.6	33.8	78.5	79.8	8.1	4.3	0.4	0.1
Metalworking and plastic working machine operators	222	178	44	44	8	9	—	—	33.2	49.4	66.9	45.5	15.7	—	—	—
Fabricating machine operators, n.e.c.	48	29	19	10	8	—	—	—	37.7	45.5	69.0	10.5	—	—	—	—
Metal and plastic processing and woodworking machine operators	142	109	33	26	40	—	15	—	32.7	40.0	62.4	81.8	—	—	—	—
Printing machine operators	775	461	264	215	74	28	6	20	29.6	29.0	84.6	83.3	8.9	—	—	—
Textile machine operators	74	19	55	25	—	30	—	—	50.0	48.0	73.7	60.0	—	12.7	—	—
Textile sewing machine operators	30	14	16	—	—	—	—	3	47.2	48.8	100.0	50.0	—	—	—	—
Laundry and dry cleaning machine operators	49	—	49	11	—	38	—	—	—	40.8	—	65.3	—	—	—	—
Packaging and filling machine operators	53	17	36	—	—	—	—	—	38.5	25	—	—	—	—	—	—
Furnace, kiln, and oven operators, except food	56	—	—	—	3	—	—	—	47.7	—	51.8	—	—	—	—	—
Other specified machine operators	974	499	475	368	70	100	25	17	33.2	31.8	79.0	82.1	11.8	8.4	1.4	1.1
Miscellaneous and not specified machine operators	4 614	2 187	2 427	1 740	370	564	104	159	32.5	34.2	79.3	80.8	7.4	4.2	0.3	—
Fabricators, assemblers, and hand working occupations	3 745	1 434	2 311	1 738	298	428	133	174	32.9	35.4	77.3	66.7	9.6	1.7	—	—
Welders and others	269	219	50	182	32	23	5	—	38.7	32.6	66.2	58.0	0.9	—	—	—
Solders and brazers	144	50	94	33	6	17	7	6	38.2	33.1	86.0	80.9	18.0	5.3	—	—
Assemblers	3 198	1 118	2 080	699	260	373	121	168	31.6	35.8	78.7	65.5	10.7	1.3	—	—
Hand working occupations	134	47	87	56	—	15	—	—	36.8	32.4	85.1	85.1	12.8	8.0	—	—
Production inspectors, testers, samplers, and weighers	3 313	1 918	1 395	1 085	134	274	40	64	44.9	36.7	88.1	83.2	8.0	4.9	—	—
Graders and sorters, except agricultural	92	42	50	42	15	5	—	3	26.8	29.4	88.1	88.0	—	—	—	—
Other production inspectors, testers, samplers, and weighers	3 221	1 876	1 345	1 043	119	269	40	61	45.1	36.9	88.1	83.0	8.2	5.1	—	—
Transportation and material moving occupations	5 932	4 932	1 000	3 957	831	185	248	63	34.1	31.9	72.3	81.7	3.7	4.5	1.2	0.6
Transportation occupations	4 487	3 711	776	2 944	649	143	174	34	34.6	30.9	71.0	83.4	3.3	4.0	0.6	0.8
Motor vehicle operators	3 531	2 856	675	2 177	587	118	162	34	33.8	31.0	66.8	80.9	2.0	3.7	0.7	0.9
Truck drivers	3 003	2 408	595	1 843	497	106	175	27	33.2	31.0	68.1	79.7	1.6	4.2	0.9	1.0
Drivers-sales workers	56	44	12	38	6	5	3	—	29.7	33.6	43.2	100.0	—	—	—	—
Other motor vehicle operators	472	404	68	296	84	7	34	7	44.2	30.2	61.6	88.2	5.0	—	—	—
Rail and water transportation occupations	956	855	101	767	62	25	12	7	39.1	29.0	84.8	100.0	7.7	5.9	—	—
Material moving equipment operators	1 445	1 221	224	1 013	169	42	74	29	32.7	37.9	76.4	75.9	4.8	6.3	2.9	—
Supervisors, material moving equipment operators	130	105	25	92	13	5	—	—	43.4	46.9	82.9	100.0	13.3	24.0	—	—
Crane, hoist and winch operators	79	61	18	48	13	5	—	—	31.1	30.0	63.9	100.0	—	—	—	—
Excavating, grading, and dozer machine operators	295	295	—	269	17	—	—	—	31.5	—	61.0	—	—	—	—	—
Other material moving equipment operators	941	760	181	604	139	37	74	29	32.2	39.0	82.5	70.2	5.8	4.4	1.7	—
Handlers, equipment cleaners, helpers, and laborers	9 212	6 691	2 521	1 957	899	502	425	109	31.8	33.6	69.4	76.6	5.3	3.1	0.5	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	114	79	35	35	—	—	—	—	40.8	40.4	100.0	100.0	24.1	—	—	—
Helpers, craft and production	534	346	188	305	37	53	14	—	29.5	33.4	78.3	93.6	4.3	7.4	—	—
Construction laborers	1 221	1 138	83	989	114	77	6	6	30.9	30.0	66.9	69.9	1.1	—	—	—
Freight, stock, and material handlers	1 672	1 386	286	244	169	29	74	17	34.8	30.0	67.8	89.9	9.4	0.7	—	—
Garage and service station occupations, and equipment cleaners	568	411	157	298	95	31	18	—	30.6	39.4	50.4	75.2	—	—	1.2	—
Hand packers and packagers	315	178	115	129	49	27	6	—	34.8	33.7	73.0	61.3	—	4.4	—	—
Laborers, except construction	4 788	3 153	1 635	2 539	435	367	252	80	31.0	34.2	71.5	73.6	5.6	3.4	1.0	—

Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

United States	Utilities and sanitary services																
	Race				Spanish origin¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed				
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female			
	Male	Female	Male	Female	Male	Female									Male	Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female			
Employed persons 16 years and over	1 372 626	1 141 396	231 230	981 646	194 458	121 724	28 319	51 898	10 501	38.6	33.8	76.5	90.5	13.3	9.8	0.9	0.5
Managerial and professional specialty occupations	205 166	180 146	25 020	168 827	21 695	5 601	2 355	4 065	763	33.6	33.6	94.0	95.4	52.1	38.1	1.0	0.7
Executive, administrative, and managerial occupations	112 435	95 691	16 744	90 926	14 366	3 038	1 542	2 032	529	35.0	35.0	90.4	94.6	41.7	28.8	1.6	0.8
Officials and administrators, public administration	3 351	2 751	600	2 751	600	15	15	—	—	—	—	100.0	100.0	—	—	—	—
Financial managers	3 381	2 859	527	2 793	480	47	35	53	12	36.2	36.2	97.3	93.0	61.7	17.4	—	—
Managers, marketing, advertising, and public relations	2 181	2 040	121	2 019	98	16	23	20	—	25	25	95.4	93.0	46.6	38.0	1.2	5.0
Administrators, education and related fields	181	163	18	147	18	—	—	—	—	—	—	90.8	33.3	28.2	27.8	6.1	—
Managers, medicine and health	5 403	4 842	561	4 616	457	179	75	86	21	34.1	34.1	93.9	96.1	42.8	31.0	0.4	—
Other specified managers	63 986	56 749	6 317	54 503	5 809	1 289	353	1 076	219	46.5	41.6	88.1	92.3	37.8	19.9	2.5	1.9
Managers and administrators, n.e.c.	61 642	55 308	6 134	53 206	5 640	1 159	345	1 030	219	46.5	41.6	88.1	92.3	37.8	19.9	2.5	1.9
Salaries	1 644	1 461	183	1 297	169	130	8	46	—	43.3	46.5	70.8	82.5	18.8	13.7	96.2	64.5
Self-employed	38 208	29 016	9 192	26 846	7 711	1 507	1 056	791	277	39.3	35.8	93.3	96.1	46.8	35.3	0.3	—
Management related occupations	18 121	12 395	5 726	11 489	4 728	523	672	366	181	34.9	32.1	98.9	96.1	65.1	36.8	0.1	—
Accountants and auditors	8 316	6 615	1 701	3 681	2 377	193	439	193	439	43.7	43.7	89.2	95.5	30.4	27.6	0.3	—
Personnel, training, and labor relations specialists	3 685	2 992	693	2 856	629	86	58	61	23	41.3	34.1	94.8	97.1	38.7	23.1	—	—
Buyers and purchasing agents	4 609	4 364	245	3 858	192	405	44	112	3	43.4	31.1	80.7	92.2	17.0	46.5	0.2	—
Inspectors and compliance officers	3 477	2 650	827	2 474	744	125	45	59	21	36.7	31.3	96.8	98.1	60.5	31.7	1.7	—
Other management related occupations	92 731	84 455	8 276	77 901	7 109	2 563	813	2 033	234	36.0	31.4	98.0	97.2	64.0	57.1	0.4	0.7
Professional specialty occupations	63 789	61 881	1 908	56 863	1 663	1 699	148	1 563	60	36.0	28.3	97.8	96.3	66.2	55.2	0.3	0.1
Engineers, architects, and surveyors	62 992	60 750	1 842	55 801	1 28	5	—	28	—	42.0	32.3	100.0	100.0	67.6	42.9	—	—
Architects	429	401	28	384	28	141	—	150	—	35.9	28.1	97.9	96.4	66.9	56.2	0.3	0.1
Engineers	10 828	10 463	365	9 840	298	21	262	26	9	38.8	26.9	94.8	95.9	59.0	71.2	0.6	0.5
Civil engineers	33 136	32 416	720	29 845	641	1 031	50	813	26	35.3	28.3	98.4	97.5	68.1	49.9	0.1	—
Electrical and electronic engineers	2 776	2 670	106	2 543	98	8	—	39	—	39.9	31.3	97.9	100.0	53.3	51.9	0.4	—
Industrial engineers	4 694	4 563	131	4 263	124	74	—	80	—	33.8	27.1	99.0	100.0	77.8	77.1	0.4	—
Mechanical engineers	11 158	10 638	520	9 700	443	225	62	307	25	35.1	28.1	98.7	93.7	69.6	56.5	0.4	—
Other engineers	1 758	1 730	38	678	31	18	7	25	—	38.1	33.5	94.5	89.5	8.6	15.8	—	—
Surveyors and mapping scientists	3 451	2 778	673	2 570	612	125	28	37	13	34.0	30.4	98.3	99.1	65.4	61.7	0.6	2.1
Computer systems analysts and scientists	2 718	534	2 252	1 629	438	52	50	46	12	37.3	32.1	99.0	93.1	51.3	52.4	0.4	0.9
Operations and systems researchers and analysts	860	563	297	549	256	10	29	—	—	37.9	34.7	98.6	95.6	47.8	42.8	1.7	—
Mathematical scientists	7 630	6 541	1 089	5 986	952	308	83	141	—	33.4	29.8	98.4	98.3	64.3	73.1	0.2	0.6
Natural scientists	3 670	3 044	626	2 650	518	221	59	47	—	34.3	30.0	99.5	97.9	65.8	78.8	—	—
Chemists, except biochemists	3 960	3 497	463	3 336	434	87	24	94	—	32.7	29.5	97.4	98.9	63.0	65.4	0.5	1.3
Other natural scientists	156	134	22	99	8	10	14	—	—	55.8	31.5	100.0	100.0	82.8	40.9	14.2	36.4
Health diagnosing occupations	445	107	338	101	283	48	50	—	5	32.6	45.0	86.0	100.0	41.1	25.4	—	—
Health assessment and treating occupations	367	48	319	264	19	—	—	—	—	34.5	45.8	68.8	100.0	16.7	24.8	—	—
Registered nurses	78	59	19	42	16	—	—	—	—	31.7	31.8	100.0	100.0	61.0	36.8	—	—
Other health assessment and treating occupations	1 979	970	1 009	901	837	69	137	42	6	38.9	33.0	92.7	97.1	23.5	52.6	0.3	0.3
Teachers, except postsecondary	2 062	1 727	335	1 631	287	58	46	15	15	35.6	32.2	99.4	95.8	68.6	77.9	—	—
Social scientists and urban planners	240	160	80	146	49	31	—	7	—	40.9	30.9	100.0	97.5	36.9	42.5	—	—
Social and recreation workers	1 899	1 683	216	1 678	160	212	50	130	—	38.0	32.0	100.0	100.0	98.4	94.0	2.6	0.9
Lawyers and judges	7 458	5 921	1 537	5 488	1 365	212	113	337	106	39.6	32.4	98.2	97.7	41.8	51.7	0.4	0.8
Writers, artists, entertainers, and athletes	510	272	238	260	199	12	34	15	5	36.6	36.7	97.8	95.8	47.4	55.5	—	—
Other professional specialty occupations	362 309	181 771	180 538	160 225	154 192	15 772	19 983	8 267	8 388	36.5	33.7	88.1	93.2	14.4	6.3	0.3	0.3
Technical, sales, and administrative support occupations	54 723	46 809	7 914	42 504	6 884	2 762	721	1 685	308	34.1	29.9	93.3	96.0	19.5	31.1	0.2	0.1
Technicians and related support occupations	1 406	1 375	231	1 016	178	10	7	26	9	33.5	30.6	71.9	89.2	24.7	32.5	0.9	—
Health technologists and technicians	1 651	1 451	200	1 251	141	14	14	—	—	41.0	47.5	66.7	100.0	—	—	—	—
Licensed practical nurses	1 561	1 351	210	1 151	164	317	46	26	9	33.4	29.6	71.9	88.1	25.1	35.7	1.0	—
Other health technologists and technicians	37 377	32 899	4 478	29 930	3 844	1 821	438	1 297	231	34.1	29.1	93.4	95.2	15.5	22.7	0.2	0.1
Engineering and science technicians	9 342	8 781	603	8 278	749	381	85	203	32	34.6	32.1	94.5	92.9	14.2	23.2	0.1	—
Electrical and electronic technicians	519	486	33	433	26	28	—	9	—	38.0	28.9	88.5	81.8	38.9	—	—	—
Industrial and mechanical engineering technicians	14 295	12 472	1 823	10 966	1 574	857	287	747	130	33.9	28.3	92.4	95.8	9.6	10.6	0.2	—
Drafting and surveying technicians	13 221	11 160	2 065	10 295	1 775	628	213	338	69	33.9	29.0	92.0	95.6	22.0	33.6	0.3	0.3
Other engineering and science technicians	15 740	12 535	3 205	11 538	2 862	614	230	362	68	34.1	30.7	95.4	97.5	29.4	42.8	0.2	0.1
Technicians, except health, engineering, and science	333	326	7	319	7	—	—	—	—	43.5	40.0	96.3	100.0	31.9	—	—	—
Airplane pilots and navigators	987	799	188	764	170	25	11	11	7	43.1	35.0	84.1	91.5	5.6	4.3	—	—
Air traffic controllers and broadcast equipment operators	6 402	4 631	1 771	4 222	1 761	237	134	113	21	31.4	29.8	99.5	99.3	55.2	53.1	0.3	0.1
Computer programmers	7 818	6 779	1 039	6 253	924	352	85	238	40	35.9	31.5	93.9	95.2	14.5	30.7	0.1	—
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																											
Utilities and sanitary services																											
Race										Spanish origin ¹				Median age				Percent high school graduates				Percent completed 4 or more years of college		Percent self-employed			
Total				White		Black		Male		Female		Male		Female		Male		Female		Male		Female		Male		Female	
Both sexes	Male	Female	Total	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.																											
Technical, sales, and administrative support occupations—Con.																											
Sales occupations																											
Supervisors and proprietors, sales occupations																											
Sales representatives, except retail																											
Sales representatives, commodities, except retail																											
Sales workers, retail and personal services																											
Cashiers																											
Other sales occupations, retail and personal services																											
Sales related occupations																											
Administrative support occupations, including clerical																											
Supervisors, administrative support occupations																											
Computer equipment operators																											
Secretaries, stenographers, and typists																											
Stenographers and typists																											
Receptionists																											
Other information clerks																											
File clerks																											
Other records processing occupations, except financial																											
Bookkeepers, accounting, and auditing clerks																											
Payroll and timekeeping clerks																											
Other financial records processing occupations																											
Telephone operators																											
Mail and message distributing occupations																											
Production coordinators and expeditors																											
Traffic, shipping, and receiving clerks																											
Stock and inventory clerks																											
Other material recording, scheduling, and distributing clerks																											
Adjusters and investigators																											
Data-entry keyers																											
Other administrative support occupations																											
Service occupations																											
Private household occupations																											
Protective service occupations																											
Guards																											
Other protective service occupations																											
Service occupations, except protective and household																											
Food preparation and service occupations																											
Health service occupations																											
Cleaning and building service occupations, except household																											
Personal service occupations																											
Farming, forestry, and fishing occupations																											
Precision production, craft, and repair occupations																											
Mechanics and repairers																											
Supervisors, mechanics and repairers																											
Automobile mechanics, including body																											
Industrial machinery repairers																											
Electronic repairers, communications and industrial equipment																											
Heating, air conditioning, and refrigeration mechanics																											
Other mechanics and repairers																											
Construction trades																											
Supervisors, construction occupations																											
Electricians																											
Plumbers, pipefitters, and steamfitters																											
Other construction trades																											

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States											
Utilities and sanitary services											
Both sexes	Total		Race				Black		Spanish origin ¹		Percent high school graduates
	Male	Female	White	Male	Female	Male	Female	Male	Female	Male	Female
Precision production, craft, and repair occupations—Con.											
Extractions occupations	543	173	495	15	9	22	215	40.8	47.2	76.7	100.0
Precision production occupations	178 990	5 870	158 865	10 148	823	5 519	215	42.9	34.6	80.1	85.3
Supervisors, production occupations	85 641	2 752	77 564	3 787	236	2 465	103	36.2	41.7	79.6	89.2
Precision metalworking occupations	9 365	9 239	7 345	594	29	323	7	37.5	28.5	75.9	76.2
Tool and die makers	145	145	133	12	6	8	—	41.5	—	84.1	—
Machinists	4 756	4 714	4 144	390	36	185	—	38.5	25	77.3	54.8
Sheet metal workers	665	661	600	37	4	20	—	40.3	30.0	72.9	—
Other precision metal workers	3 799	3 719	3 468	57	23	110	7	35.0	31.9	74.4	91.3
Precision textile, apparel, and furnishings machine workers	357	326	31	82	3	13	—	45.9	39.1	48.5	38.7
Precision food production occupations	134	115	3	19	—	—	—	36.3	48.6	86.1	100.0
Precision inspectors, testers, and related workers	3 162	3 022	2 744	218	45	80	8	42.4	31.7	89.5	95.7
Plant and system operators	78 991	76 263	68 690	5 373	367	2 604	90	37.0	31.1	80.8	82.5
Other precision production occupations	1 340	1 266	1 166	91	20	29	7	39.9	37.4	86.9	59.5
Operators, fabricators, and laborers	289 964	9 719	206 192	61 495	2 709	20 216	593	36.0	32.2	55.8	62.2
Machine operators, assemblers, and inspectors	69 720	65 783	56 869	6 886	867	3 067	223	36.8	32.5	74.3	71.4
Machine operators and tenders, except precision	37 996	35 485	29 901	4 377	526	1 791	115	35.7	32.3	72.9	73.7
Metalworking and plastic working machine operators	1 677	1 533	1 298	167	46	66	—	38.8	31.9	63.2	68.1
Fabricating machine operators, n.e.c.	74	56	43	11	2	2	—	36.3	37.9	76.8	11.1
Metal and plastic processing and woodworking machine operators	400	348	294	24	23	12	5	30.5	36.8	74.7	69.2
Printing machine operators	945	624	501	226	47	41	40	34.1	31.3	86.9	87.9
Textile machine operators	94	94	88	6	7	9	—	37.6	—	74.5	—
Textile sewing machine operators	90	63	56	26	1	—	—	25	57.5	38.1	74.1
Laundering and dry cleaning machine operators	77	62	54	8	15	7	—	25	26.7	62.9	100.0
Packaging and filling machine operators	133	106	76	19	12	19	—	32.9	41.6	48.1	74.1
Furnace, kiln, and oven operators, except food	7 300	7 215	6 466	618	23	160	—	36.1	29.3	81.3	92.9
Other specified machine operators	3 365	3 078	2 631	361	54	179	20	34.7	32.2	68.6	79.4
Miscellaneous and not specified machine operators	23 841	22 306	18 394	3 041	294	1 296	50	35.9	32.3	71.2	69.7
Fabricators, assemblers, and hand working occupations	19 743	18 850	16 786	1 490	192	911	54	35.4	34.2	73.5	60.0
Welders and cutters	16 818	16 646	15 021	1 134	148	746	8	35.5	30.2	74.0	87.2
Solders and brazers	85	59	6	37	22	—	—	30.0	35.9	100.0	20.3
Assemblers	2 705	2 063	1 648	466	150	160	38	34.0	36.4	69.0	55.9
Hand working occupations	11 981	11 448	10 111	1 019	5	—	—	34.5	46.7	77.8	75.0
Production inspectors, testers, samplers, and weighers	198	157	138	43	12	15	14	45.6	29.6	63.7	65.9
Graders and sorters, except agricultural	11 783	11 291	10 068	976	137	350	40	42.4	31.1	80.1	80.7
Other production inspectors, testers, samplers, and weighers	89 460	88 060	85 317	18 445	282	6 931	71	37.8	33.2	51.3	56.1
Transportation and material moving occupations	64 718	63 676	61 023	16 023	236	3 583	56	37.5	33.0	47.5	51.8
Motor vehicle operators	64 008	62 974	60 621	15 946	236	3 568	56	37.5	32.7	47.2	52.0
Truck drivers	379	377	343	14 830	201	5 112	51	37.1	33.7	46.8	52.2
Over-the-road drivers	358	346	300	1 022	35	42	—	36.2	30.0	52.4	30.0
Other motor vehicle operators	4 711	4 062	3 788	1 094	29	414	5	42.7	29.2	71.0	55.7
Rail and water transportation occupations	710	702	618	277	46	407	15	40.9	33.8	73.1	68.7
Material moving equipment operators	24 742	24 388	21 618	2 472	46	1 348	15	38.9	30.0	81.3	81.3
Supervisors, material moving equipment operators	892	886	825	4	4	—	—	46.3	30.5	46.3	108.0
Crane, hoist, and winch operators	2 832	2 803	2 418	318	11	79	—	44.4	37.8	59.3	58.3
Excavating, grading, and dozer machine operators	7 095	7 004	6 171	914	14	376	10	37.2	37.8	56.9	56.9
Other material moving equipment operators	13 916	13 689	11 614	1 481	21	879	5	38.0	32.4	62.4	75.3
Handlers, equipment cleaners, helpers, and laborers	130 784	126 402	84 006	2 597	1 560	10 218	299	34.3	31.7	49.2	56.0
Supervisors, handlers, equipment cleaners, and laborers	492	478	336	142	14	19	—	47.8	36.3	64.4	100.0
Helpers, craft and production	7 594	7 238	5 678	1 243	79	574	23	27.9	27.3	71.9	87.1
Carpenters, joiners, and millwrights	12 219	12 016	9 516	1 891	90	995	75	33.7	27.3	66.6	66.5
Freight stock and material handlers	59 370	57 933	34 455	20 563	610	4 936	75	35.3	33.5	40.3	45.2
Consignee and service station occupations, and equipment cleaners	2 377	2 303	1 648	539	18	112	—	34.7	33.9	57.8	66.2
Hand packers and packagers	324	324	206	50	25	27	16	39.1	25	51.3	61.9
Laborers, except construction	48 408	46 173	32 167	11 736	738	3 555	185	34.5	31.7	51.7	56.2

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States																								
Wholesale Trade, total																								
Race						Spanish origin ¹				Median age				Percent high school graduates				Percent completed 4 or more years of college		Percent self-employed				
Total			White			Black			Male		Female		Male		Female		Male		Female		Male		Female	
Both sexes	Male	Female	Male	Female	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over																								
4 217 232	3 083 471	1 133 761	2 777 941	1 018 060	192 380	67 617	166 506	66 021	36.7	34.4	77.2	82.2	17.7	9.1	6.1	2.6								
744 045	611 523	132 522	581 125	123 695	11 088	4 049	16 316	4 917	41.2	35.2	90.9	92.3	37.1	23.5	5.8	4.1								
672 415	557 651	114 764	531 762	107 634	9 161	3 220	14 574	4 190	41.6	36.2	90.3	92.3	35.6	20.5	6.1	3.9								
28 099	20 253	7 846	19 387	7 513	222	148	447	282	39.5	36.2	98.4	98.8	61.0	20.1	0.2	0.7								
125 249	116 540	8 709	113 165	8 260	1 143	193	2 134	365	40.7	33.0	94.6	95.0	42.0	29.6	3.0	5.9								
472	382	90	369	63	27	—	—	—	41.4	35.6	91.4	100.0	47.1	20.0	1.3	6.7								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—								
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—									

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States																
	Employed persons 16 years and over—Con.																
	Race						Wholesale trade, total										
	Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Technical, sales, and administrative support occupations—Con.																	
Sales occupations	1 045 889	899 631	146 258	863 668	134 351	18 321	6 922	27 097	6 846	39.5	32.9	87.7	82.9	25.9	17.2	12.5	9.6
Supervisors and proprietors, sales occupations	109 119	135 700	9 534	129 467	13 107	2 531	493	4 462	620	42.8	39.4	84.1	83.7	21.8	15.7	26.4	30.1
Salaries	40 802	36 135	4 667	39 370	6 798	1 795	399	3 239	427	41.5	36.9	87.5	85.8	23.3	15.5	—	—
Self-employed	808 504	702 984	105 520	676 305	98 016	14 124	4 241	20 362	4 551	39.4	32.8	90.8	88.0	36.6	16.0	99.1	91.7
Sales representatives, finance and business services	52 787	57 827	24 969	58 914	21 768	1 600	2 194	2 189	33.7	29.6	88.8	85.5	28.1	20.4	10.5	8.8	
Sales representatives, commodities, except retail	62 165	53 727	16 531	54 914	21 768	1 600	2 194	2 189	33.7	29.6	88.8	85.5	28.1	20.4	10.5	8.8	
Sales workers, retail and personal services	62 165	53 727	16 531	54 914	21 768	1 600	2 194	2 189	33.7	29.6	88.8	85.5	28.1	20.4	10.5	8.8	
Cashiers	20 633	4 102	16 531	13 894	610	1 794	4 478	1 360	37.4	28.2	69.3	66.8	9.9	7.6	0.7	0.7	
Other sales occupations, retail and personal services	62 165	53 727	16 531	54 914	21 768	1 600	2 194	2 189	33.7	29.6	88.8	85.5	28.1	20.4	10.5	8.8	
Sales related occupations	2 431	1 470	1 383	87	50	22	46	20	42.5	42.7	78.7	77.1	12.2	16.2	20.2	3.7	
Administrative support occupations, including clerical	898 715	239 498	659 217	205 133	611 884	22 036	26 625	17 649	28 045	33.2	34.2	78.0	88.4	12.5	6.1	0.9	1.1
Supervisors, administrative support occupations	50 419	29 440	20 979	26 229	19 427	1 862	867	1 649	844	38.4	37.6	85.4	91.5	22.0	6.1	0.9	1.2
Computer equipment operators	30 876	8 278	22 598	20 409	608	1 298	423	423	1 123	29.9	29.7	92.8	91.5	12.9	5.3	0.8	0.8
Secretaries, stenographers, and typists	217 531	3 038	214 493	2 704	202 930	190	6 126	193	8 907	38.5	33.2	87.4	92.0	23.7	6.3	1.1	0.8
Stenographers and typists	196 853	2 379	194 474	2 215	185 243	66	4 709	66	7 834	41.1	33.3	87.4	92.0	23.7	6.3	1.1	0.8
Receptionists	16 543	659	20 019	489	17 687	124	4 177	75	1 073	28.8	32.5	79.1	88.7	18.8	4.4	2.0	0.8
Other information clerks	7 362	1 831	5 531	334	14 912	36	770	32	869	36.9	28.5	67.9	86.6	13.5	4.2	0.8	0.4
File clerks	10 164	1 669	8 995	9 952	7 763	143	732	68	631	34.0	34.4	81.3	84.2	17.8	5.5	1.7	1.5
Other records processing occupations, except financial	45 008	18 362	26 646	15 831	24 042	1 697	1 697	1 399	1 384	32.6	32.2	77.1	85.3	9.2	6.0	0.9	0.5
Bookkeepers, accounting, and auditing clerks	178 711	16 847	161 864	154 484	647	2 928	1 083	4 567	4 567	40.2	39.2	90.8	89.9	22.3	6.4	2.1	2.2
Payroll and timekeeping clerks	5 273	3 990	4 883	3 327	4 622	40	136	24	133	36.8	37.7	88.5	91.7	14.9	6.2	—	0.4
Other financial records processing occupations	22 959	3 976	18 983	17 317	3 317	221	1 011	208	925	37.9	33.1	87.7	84.8	17.9	4.3	1.5	0.3
Telephone operators	9 115	244	5 028	4 462	2 844	34	384	9	145	39.8	39.8	87.7	77.8	14.3	1.6	—	—
Mail and message distributing occupations	14 773	7 410	7 363	6 555	6 839	519	336	435	618	210	28.2	67.9	79.3	6.0	3.8	1.9	0.7
Production coordinators and expeditors	66 739	66 739	10 154	45 548	8 754	7 645	5 630	706	936	30.8	32.1	81.3	83.6	17.2	7.9	0.9	0.2
Traffic, shipping, and receiving clerks	59 224	39 168	20 056	33 084	18 175	4 108	1 089	2 825	936	29.1	32.1	71.0	73.6	4.4	3.3	0.6	0.4
Stock and inventory clerks	19 678	13 349	6 329	11 639	1 177	801	1 089	1 004	590	38.5	34.4	69.1	70.1	7.1	5.4	0.3	0.5
Other material recording, scheduling, and distributing clerks	15 903	7 195	8 284	6 932	7 500	411	557	307	279	34.2	32.3	88.8	91.0	29.0	13.8	3.0	0.3
Adjusters and investigators	23 533	23 901	75 731	21 022	1 633	3 982	2 274	72	1 279	36.1	35.7	80.4	89.8	14.4	3.2	0.3	0.2
Data-entry keyers	60 916	45 614	15 302	10 907	7 456	3 464	3 464	4 267	1 315	40.3	40.8	46.9	45.6	3.9	1.9	1.3	2.4
Other administrative support occupations	7 466	6 986	480	382	819	89	477	8	53.1	34.9	54.7	72.3	6.9	—	—	—	—
Service occupations	6 858	6 391	5 410	375	776	83	470	8	54.7	35.0	52.1	71.5	6.2	4.7	0.3	—	—
Private household occupations	53 450	38 628	14 822	10 525	6 637	3 375	3 790	1 307	407	40.7	34.3	82.0	100.0	14.1	—	—	—
Guards	482	156	326	4 220	694	1 024	520	407	37.7	41.0	45.6	44.8	3.3	1.8	1.5	2.5	1.9
Other protective service occupations	40 596	33 216	7 380	253	48	59	16	15	34.0	37.0	40.4	47.1	7.1	2.3	4.6	1.9	4.6
Food preparation and service occupation	2 639	1 123	1 516	2 064	5 801	2 084	3 083	671	38.7	43.2	43.4	37.6	2.6	0.5	1.0	1.8	1.8
Health service occupations	8 045	5 893	2 152	4 837	503	139	776	322	31.3	31.4	45.9	55.1	5.0	6.9	9.1	4.4	4.4
Cleaning and building service occupations, except household	462 801	32 450	386 514	25 626	26 610	4 176	27 351	3 506	34.9	36.8	70.3	64.7	5.5	5.6	4.0	3.0	3.0
Personal service occupations	222 081	217 642	4 439	3 617	9 551	554	10 554	346	33.1	31.3	72.1	70.9	3.3	8.0	3.7	1.2	1.2
Farming, forestry, and fishing occupations	7 855	31 102	7 296	135	247	130	235	13	39.5	35.4	75.3	82.7	5.2	3.3	0.9	—	—
Precision production, craft, and repair occupations	31 414	28 139	3 024	4 220	1 012	96	2 218	80	32.2	28.6	60.9	57.4	1.8	9.9	4.7	—	—
Mechanics and repairers	21 786	21 400	386	277	1 012	96	1 099	7	34.7	36.6	72.5	65.3	3.3	4.4	2.0	0.5	0.5
Supervisors, mechanics and repairers	4 768	4 586	182	4 191	138	194	26	291	13	31.2	33.3	85.9	69.2	5.4	—	4.3	—
Automobile mechanics, including body	21 837	21 676	20 440	135	619	161	938	51	33.0	26.0	73.8	81.4	2.8	—	11.5	3.1	3.1
Industrial machinery repairers	134 421	131 173	3 248	2 689	5 682	392	5 773	182	32.9	31.0	73.7	71.9	3.5	9.3	2.6	1.4	1.4
Electronic repairers, communications and industrial equipment	47 594	46 391	4 441	1 015	3 202	127	3 077	113	33.2	32.8	66.2	61.6	3.9	6.7	8.2	6.1	6.1
Heating, air conditioning, and refrigeration mechanics	2 257	2 217	2 039	140	103	40	88	7	42.2	40.6	76.5	87.5	11.0	—	4.6	—	—
Other mechanics and repairers	6 657	6 448	209	187	465	22	584	7	34.0	33.8	59.2	57.9	3.8	3.8	6.1	6.2	6.2
Construction trades	7 905	7 652	253	7 104	333	22	299	29	33.2	33.1	76.9	73.9	4.7	8.3	3.4	2.0	2.0
Supervisors, construction occupations	3 573	3 337	236	3 573	333	32	433	33	31.7	31.3	50.6	54.2	3.3	19.1	3.1	12.7	12.7
Carpenters	15 153	14 982	171	13 932	137	15	750	26	35.0	33.6	68.8	61.4	3.6	3.6	12.8	8.6	8.6
Electricians	12 049	11 755	294	10 162	1 086	8	923	19	30.1	31.3	62.4	56.1	2.7	2.0	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Wholesale trade, total														
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female	
	Male	Female	Male	Female	Male	Female									
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over—Con.															
Precision production, craft, and repair occupations—Con															
900	878	22	802	8	54	—	50	14	33.7	47.1	68.0	13.6	8.9	2.5	—
192 226	165 010	26 786	143 194	20 986	13 803	3 495	13 620	3 033	39.1	38.1	68.2	62.7	8.9	2.5	3.1
122 460	109 731	12 729	97 516	11 045	7 882	1 102	7 118	963	40.3	39.2	70.3	62.7	10.3	2.7	3.5
19 304	17 895	1 409	15 962	1 016	7 019	211	1 253	156	34.7	33.6	68.7	68.4	2.9	6.1	6.3
1 066	936	30	950	20	48	5	47	58	42.3	33.2	77.3	68.4	2.9	20.0	—
9 642	9 278	364	8 042	191	784	140	673	58	34.3	38.6	66.8	66.9	2.3	2.0	2.2
4 272	4 212	58	4 049	50	60	4	204	204	33.6	32.0	67.6	67.7	2.3	4.4	—
4 322	3 369	953	2 921	745	127	62	339	93	35.2	32.8	74.2	69.3	9.2	9.0	8.5
6 232	5 557	675	4 557	2 982	249	741	341	930	39.1	41.9	74.2	67.7	9.2	9.0	8.5
30 130	24 955	5 175	18 694	3 524	3 834	1 185	4 189	618	37.4	36.6	51.8	48.8	2.5	3.7	3.7
1 135	816	319	722	266	51	20	58	52	35.1	32.3	82.0	76.8	7.0	1.5	—
5 104	4 931	173	4 340	147	410	26	133	55	39.5	35.8	74.7	72.8	15.0	19.7	—
7 861	5 437	2 424	4 690	2 004	358	210	578	309	32.9	31.9	69.6	63.2	5.0	5.0	1.4
Operators, fabricators, and laborers															
950 360	814 381	135 979	668 486	101 240	104 191	21 605	71 367	20 629	32.1	35.6	59.8	50.2	2.7	2.4	1.0
190 545	129 314	61 231	99 487	43 939	19 701	10 344	16 901	11 271	32.4	32.4	54.2	46.1	2.6	1.7	0.6
107 151	78 895	28 256	59 868	19 768	13 115	5 852	9 945	4 224	32.9	36.7	53.3	47.6	2.6	1.8	0.9
6 319	5 477	842	4 533	646	566	134	647	102	32.9	34.5	51.6	51.8	1.5	1.5	—
460	379	81	273	75	40	6	117	10	33.8	33.8	59.6	59.1	1.3	—	—
Metal and plastic processing and woodworking machine operators															
6 144	5 290	854	4 039	539	866	230	593	141	33.3	32.9	48.1	47.4	2.3	0.2	—
3 807	2 556	1 251	2 168	1 066	246	112	170	58	30.8	32.5	75.8	74.7	5.6	3.5	2.0
1 883	605	578	496	369	104	167	36	89	30.0	35.3	46.0	43.1	2.8	6.6	1.4
2 699	552	2 147	343	1 318	117	517	125	366	34.3	42.3	46.4	39.1	3.6	4.0	2.7
Textile machine operators															
225	107	118	57	62	44	50	7	21	25.7	42.7	39.3	18.6	—	7.5	—
4 676	2 711	1 965	2 119	1 544	438	260	276	182	33.4	39.5	54.0	51.5	2.0	0.2	1.0
2 133	1 953	180	1 470	92	418	66	153	20	38.4	46.1	52.6	54.4	1.4	3.3	—
27 210	21 953	5 257	17 310	3 649	3 192	1 075	2 366	801	32.3	36.0	54.1	46.3	2.1	1.5	1.8
52 295	37 312	14 983	27 060	10 408	7 084	3 235	5 455	2 434	33.1	36.7	52.4	46.5	2.9	1.9	0.4
Miscellaneous and not specified machine operators															
48 201	35 345	12 856	28 340	9 519	4 312	1 980	4 004	2 126	31.6	35.5	56.4	52.8	2.1	2.3	0.8
18 636	18 116	520	14 844	416	1 964	56	2 091	110	32.8	33.9	55.5	54.8	1.3	1.0	—
417	160	257	127	208	20	40	48	51	26.8	32.4	48.1	46.7	5.0	3.8	2.7
26 686	15 419	11 267	12 091	8 324	2 096	1 708	2 083	1 843	30.1	35.7	57.5	53.4	2.9	2.4	0.5
2 462	1 650	812	1 278	571	232	176	182	122	30.8	35.8	57.4	44.8	3.3	3.1	5.1
35 193	15 074	20 119	11 279	14 652	2 274	2 512	2 552	4 921	31.9	41.1	53.9	39.8	4.2	1.1	0.1
24 318	8 404	15 914	6 001	11 411	1 247	1 828	1 915	4 330	29.8	41.2	40.7	36.9	2.9	0.9	0.1
Graders and sorters, except agricultural															
Other production inspectors, testers, samplers, and weighers															
10 875	6 670	4 205	5 278	3 241	1 027	684	637	591	33.9	41.0	70.5	50.9	5.8	2.0	0.8
Transportation and material moving occupations															
447 732	436 647	11 085	370 204	9 805	50 748	947	28 479	594	33.8	30.0	63.2	69.3	2.6	3.6	3.6
387 463	378 529	8 334	325 553	8 076	40 908	644	22 541	594	34.0	29.2	64.2	69.9	2.6	3.9	4.4
386 227	377 342	8 885	324 606	8 033	40 712	638	22 476	373	34.0	29.2	64.2	69.9	2.6	3.9	4.4
309 789	303 366	6 423	255 965	5 721	37 042	548	19 419	291	33.6	28.4	61.3	68.0	2.1	3.0	3.9
65 575	63 906	1 669	60 176	1 560	2 507	57	2 258	64	35.4	30.3	77.7	76.5	4.7	6.9	8.0
10 863	10 070	793	8 465	752	1 163	33	799	18	36.7	30.8	65.6	71.4	4.1	4.4	1.0
1 236	1 187	49	947	43	196	6	45	—	40.7	32.7	53.3	67.3	7.2	2.1	—
60 269	58 118	2 151	44 651	1 729	9 840	303	5 938	221	32.4	33.8	57.2	66.8	2.1	2.7	0.8
2 816	2 576	240	2 334	149	138	13	149	3	33.8	33.8	75.0	87.5	10.7	0.4	—
8 078	7 966	6 016	6 016	90	1 584	22	599	—	36.0	27.4	45.6	75.0	1.2	0.5	—
1 223	1 186	37	997	29	145	8	86	—	35.1	34.4	43.8	54.1	1.9	11.4	—
48 152	46 390	1 762	35 304	1 383	7 973	260	5 104	218	31.8	32.8	58.5	63.7	1.8	3.3	—
Other material moving equipment operators															
312 083	248 420	63 663	198 795	47 496	33 742	10 314	25 987	8 764	28.4	34.9	56.8	50.9	2.9	1.7	0.9
Handlers, equipment cleaners, helpers, and laborers															
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.															
365	335	30	285	24	36	—	15	—	35.5	43.8	68.7	80.0	17.6	—	—
6 129	5 609	520	4 281	46	819	46	789	112	25	36.4	47.9	50.4	1.9	0.8	2.9
1 825	1 717	108	1 389	83	209	12	179	16	32.4	36.4	51.4	68.5	3.3	—	—
72 970	67 521	5 449	54 790	4 315	9 302	823	6 024	330	25.1	32.1	53.7	57.2	2.2	1.5	1.4
Freight, stock, and material handlers															
Garage and service station occupations, and equipment cleaners															
7 693	7 115	578	5 433	493	1 314	61	551	87	26.3	31.8	49.7	50.3	1.4	2.1	1.9
50 098	21 172	28 926	15 001	21 292	3 852	4 245	3 818	5 239	28.9	37.8	49.8	46.4	3.3	1.3	0.5
173 003	144 951	28 052	117 616	20 855	18 210	5 127	14 611	2 980	29.8	33.5	59.9	54.2	3.3	2.2	1.2

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States											
	Groceries and farm products											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Black		Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over	844 139	635 227	554 107	179 530	52 472	17 546	47 952	17 056	36.9	36.1	69.9	72.3
Managerial and professional specialty occupations	123 810	105 789	100 898	16 910	2 015	427	3 267	865	41.8	36.3	85.9	88.8
Executive, administrative, and managerial occupations	117 889	101 305	96 666	15 607	1 910	388	3 084	771	42.0	36.9	85.7	88.6
Officials and administrators, public administration	3	3	3	—	—	—	—	—	30.0	—	100.0	100.0
Financial managers	3 450	2 705	2 553	745	73	7	111	47	37.6	37.6	96.8	97.3
Managers, marketing, advertising, and public relations	17 932	17 133	16 581	755	223	13	342	46	41.0	31.8	91.2	92.4
Administrators, education and related fields	43	31	31	12	—	—	—	—	45.5	25.0	100.0	100.0
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	2 433	1 977	1 793	421	93	7	111	39	39.9	37.2	84.3	83.3
Managers and administrators, n.e.c.	59 366	51 223	48 845	7 700	818	166	1 698	346	43.1	40.9	86.0	86.4
Salaries	55 512	47 972	45 762	7 170	799	136	1 483	314	42.9	40.6	86.5	87.2
Self-employed	3 854	3 251	3 083	530	19	30	215	32	46.4	45.6	79.1	75.3
Management-related occupations	34 662	28 233	26 860	6 004	703	195	822	293	41.5	33.4	80.6	90.2
Accountants and auditors	6 854	3 860	3 667	2 974	68	79	176	115	34.8	32.6	98.6	94.4
Buyers and purchasing agents	1 749	1 330	1 208	390	67	13	97	60	38.2	33.9	80.4	85.7
Inspectors and compliance officers	24 955	22 171	21 154	2 637	560	103	549	104	42.9	34.2	77.1	86.6
Other management-related occupations	120	103	103	17	8	—	—	4	44.0	33.8	85.4	64.7
Professional specialty occupations	5 921	4 484	4 232	1 303	105	39	183	94	37.6	31.7	91.8	91.4
Engineers, architects, and surveyors	1 258	1 195	1 124	85	22	—	41	8	42.4	31.3	91.4	92.5
Architects	38	35	38	—	—	—	—	—	36.4	—	100.0	—
Engineers	1 220	1 160	1 086	85	22	—	41	8	42.5	31.3	91.1	92.5
Electrical and electronic engineers	101	104	92	—	7	—	—	—	38.5	—	96.1	—
Electrical engineers	94	94	81	—	—	—	—	—	40.5	—	90.4	—
Mechanical engineers	328	270	270	50	7	—	4	8	43.2	33.4	91.5	87.9
Other engineers	277	211	211	—	6	—	—	—	47.1	20.2	85.9	—
Surveyors and mapping scientists	420	385	372	35	3	—	34	—	40.6	25.6	96.1	100.0
Computer systems analysts and scientists	611	529	496	82	8	—	14	—	32.7	31.4	98.7	100.0
Operations and systems researchers and analysts	198	169	162	29	—	—	—	—	37.9	41.8	79.3	47.6
Mathematical scientists	127	72	66	49	—	—	—	10	29.7	32.3	100.0	51.7
Natural scientists	554	427	385	83	23	5	4	7	36.3	29.3	97.2	65.5
Chemists, except biochemists	256	189	162	35	11	—	—	—	44.4	31.9	94.7	55.1
Other natural scientists	298	238	223	48	12	5	4	7	32.4	26.5	99.2	50.7
Health diagnosing occupations	33	33	33	—	—	—	—	—	28.8	—	69.7	83.3
Health assessment and treating occupations	128	44	40	75	4	9	—	5	38.7	37.7	84.1	96.4
Registered nurses	39	13	13	26	—	—	—	—	44.3	41.7	46.2	44.0
Other health assessment and treating occupations	89	31	27	49	4	9	—	5	35.4	36.3	100.0	7.7
Teachers, except postsecondary	117	61	61	45	—	6	—	—	42.7	38.5	68.9	82.1
Social scientists and urban planners	770	584	578	178	—	4	39	5	36.9	29.3	93.5	93.5
Social and recreation workers	65	65	55	—	10	—	—	—	31.9	—	100.0	57.0
Lawyers and judges	266	222	222	32	—	—	—	—	40.7	30.8	100.0	26.2
Writers, artists, entertainers, and athletes	1 692	1 038	935	618	38	15	80	59	37.1	31.3	84.4	100.0
Other professional specialty occupations	102	75	75	27	—	—	—	—	43.8	31.3	81.3	90.8
Technical, sales, and administrative support occupations	291 074	166 551	153 762	115 831	7 403	4 611	8 772	5 359	39.8	34.9	80.1	84.8
Technicians and related support occupations	4 018	2 686	2 405	1 189	167	83	138	76	32.9	30.2	90.9	85.3
Health technologists and technicians	96	52	43	44	9	—	—	—	29.5	33.0	90.9	85.3
Licensed practical nurses	34	22	22	12	—	—	—	—	25	25	77.3	100.0
Other health technologists and technicians	62	30	21	32	9	—	—	—	35.0	35.0	93.3	100.0
Engineering and science technicians	1 645	1 039	951	544	55	45	59	51	34.5	32.1	85.1	76.9
Electrical and electronic technicians	138	118	104	20	7	—	—	—	33.5	32.1	88.1	100.0
Industrial and mechanical engineering technicians	18	18	5	—	—	—	—	—	43.6	—	50.0	4.2
Drafting and surveying technicians	220	178	157	42	21	—	6	6	32.9	25	94.4	100.0
Other engineering and science technicians	1 269	725	685	482	27	45	37	45	34.9	32.6	83.2	74.3
Technicians, except health, engineering, and science	2 277	1 595	1 411	601	103	38	79	25	32.1	29.2	94.8	92.5
Airplane pilots and navigators	148	148	125	—	23	—	6	—	40.0	—	73.6	—
Air traffic controllers and broadcast equipment operators	16	16	16	—	—	—	—	—	40.0	—	100.0	—
Computer programmers	1 638	1 116	982	466	74	19	54	12	31.2	28.6	97.9	94.1
Other technicians, except health, engineering, and science	475	315	288	135	6	19	19	13	33.4	33.5	93.3	87.5

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Groceries and farm products													
	Total				Race				Black				Spanish origin ¹	
	Both sexes		Male		White		Female		Male		Female		Male	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.														
Sales occupations.....	149 644	124 450	25 194	97 997	118 341	23 045	2 987	1 307	5 127	1 209	41 2	33 1	17 1	10 1
Supervisors and proprietors, sales occupations.....	23 029	21 480	2 149	2 878	20 370	2 012	415	37	954	133	43 4	42 0	17 1	10 1
Salaries.....	16 945	15 505	1 440	2 176	14 726	1 358	329	10	726	94	42 2	38 8	18 6	12 7
Self-employed.....	6 684	5 975	709	88	5 644	654	86	10	280	35	46 7	47 9	14 3	14 8
Sales representatives, finance and business services.....	113 570	99 256	14 314	88	94 813	13 484	2 241	420	3 801	522	36 7	31 5	21 9	39 8
Sales representatives, commodities, except retail.....	10 823	2 644	8 179	7 015	2 157	7 015	294	850	3 388	342	40 9	33 8	17 3	14 3
Sales workers, retail and personal services.....	9 391	1 769	7 622	271	1 326	6 482	271	826	299	536	26 5	28 4	8 9	2 1
Cashiers.....	1 432	875	557	831	831	553	23	24	39	533	37 7	32 3	15 1	5 4
Other sales occupations, retail and personal services.....	1 297	833	464	776	446	446	37	—	27	12	45 6	49 1	16 5	7 7
Sales related occupations.....	137 412	39 415	97 997	33 016	91 597	2 720	4 249	3 221	3 507	4 074	34 7	35 6	9 9	5 2
Administrative support occupations, including clerical.....	8 176	5 298	2 878	4 723	2 012	2 720	281	65	415	96	39 0	38 8	16 2	6 3
Supervisors, administrative support occupations.....	4 909	1 663	2 878	1 487	1 487	2 878	94	195	113	165	30 0	29 3	13 8	5 5
Computer equipment operators.....	28 285	387	27 898	355	26 609	355	18	470	8	153	37 8	33 6	16 0	5 4
Secretaries, stenographers, and typists.....	26 325	302	26 023	296	25 101	412	—	—	8	101	27 8	33 6	20 5	5 6
Stenographers and typists.....	1 960	85	1 875	85	1 788	85	18	58	7	111	31 2	31 2	23 1	4 2
Receptionists.....	1 628	152	1 476	152	1 324	152	—	—	7	13	30 4	34 7	20 4	3 0
Other information clerks.....	1 859	165	1 694	165	1 529	165	6	54	21	82	28 9	31 7	17 0	4 0
File clerks.....	1 012	859	707	1 400	859	707	—	—	284	221	33 2	32 8	5 2	6 4
Other records processing occupations, except financial.....	6 737	3 017	3 720	2 389	3 343	3 343	414	240	320	703	39 6	39 9	21 7	5 5
Bookkeepers, accounting, and auditing clerks.....	32 713	3 477	29 236	3 201	27 971	92	92	491	320	703	39 6	39 9	21 7	5 5
Payroll and timekeeping clerks.....	1 346	124	1 222	118	1 104	118	18	25	17	37	40 2	38 8	5 6	4 1
Other financial records processing occupations.....	3 108	546	2 562	504	2 332	504	26	137	43	150	38 7	35 4	10 1	3 0
Telephone operators.....	807	65	742	58	687	58	31	—	17	31	31 8	39 4	10 8	1 6
Mail and message distributing occupations.....	1 466	1 015	451	786	423	99	145	9	115	28	31 0	29 8	5 9	2 4
Production coordinators and expeditors.....	2 319	1 178	1 141	953	1 054	1 141	120	99	70	34	33 5	34 6	7 1	3 1
Traffic, shipping, and receiving clerks.....	9 155	8 077	1 078	6 205	929	6 205	1 392	82	863	105	34 3	34 2	9 5	5 3
Stock and inventory clerks.....	8 014	6 096	1 918	4 902	1 715	95	876	95	499	89	29 8	34 3	6 4	8 7
Other material recording, scheduling, and distributing clerks.....	5 607	4 071	1 536	3 444	1 246	229	60	47	475	145	38 6	37 7	19 9	9 3
Adjusters and investigators.....	1 252	609	643	534	554	534	47	—	12	19	40 2	33 7	8 1	4 1
Data-entry keyers.....	3 977	3 198	1 833	3 779	1 833	3 779	280	533	221	553	29 9	37 0	13 6	2 3
Other administrative support occupations.....	16 042	3 288	12 754	2 876	11 678	11 678	—	—	221	553	40 5	38 3	15 0	0 9
Service occupations.....	22 722	16 326	6 396	12 512	4 501	12 512	2 731	1 419	1 859	539	38 0	38 7	3 9	1 9
Private household occupations.....	1 947	1 884	63	1 600	37	1 600	203	17	173	—	54 5	33 5	5 6	—
Protective service occupations.....	1 837	1 774	63	1 496	37	1 496	197	17	173	—	54 7	33 5	5 1	—
Guards.....	20 775	14 440	6 333	10 912	4 464	10 912	2 528	1 402	1 686	539	32 4	38 8	14 5	—
Other protective service occupations.....	7 204	3 099	4 105	2 214	3 066	3 066	369	735	420	347	31 8	38 0	9 7	1 9
Food preparation and service occupations.....	91	52	39	89	50	89	—	—	2	2	37 0	41 1	9 6	2 5
Health service occupations.....	13 005	10 984	2 021	8 375	1 226	8 375	1 939	640	1 223	182	37 1	40 9	23 1	2 2
Cleaning and building service occupations, except household.....	475	307	168	284	142	284	16	—	32	8	40 7	35 7	2 6	—
Personal service occupations.....	2 293	2 037	256	1 854	179	1 854	122	38	151	18	29 7	30 3	2 7	6 3
Farming, forestry, and fishing occupations.....	80 533	72 261	8 272	60 422	6 110	60 422	7 295	1 528	7 888	885	39 1	38 4	5 2	1 9
Precision production, craft, and repair occupations.....	16 082	15 885	197	14 215	164	14 215	992	33	266	—	37 9	40 0	2 0	2 0
Mechanics and repairers.....	724	708	16	3 286	13	3 286	46	3	293	—	41 8	48 8	1 8	—
Supervisors, mechanics and repairers.....	3 669	3 661	52	3 106	30	3 106	181	22	265	—	35 3	65 +	1 2	—
Automobile mechanics, including body.....	3 486	3 434	52	3 106	30	3 106	181	22	265	—	40 3	50 0	2 6	—
Industrial machinery repairers.....	79	842	—	48	—	48	23	—	8	—	30 0	—	—	—
Electronic repairers, communications and industrial equipment.....	79	842	—	48	—	48	23	—	8	—	30 0	—	—	—
Heating, air conditioning, and refrigeration mechanics.....	7 282	7 161	121	6 358	113	6 358	4	8	578	—	39 5	34 4	1 2	—
Other mechanics and repairers.....	2 364	2 270	94	1 977	91	1 977	201	20	161	—	37 3	—	2 3	—
Construction trades.....	226	214	12	210	12	210	62	3	13	—	38 9	28 9	3 4	—
Supervisors, construction occupations.....	723	691	32	592	29	592	2	3	57	—	42 5	50 0	5 1	—
Carpenters.....	762	752	10	675	10	675	58	—	17	—	39 5	25 0	1 6	—
Electricians.....	281	261	20	216	20	216	40	—	17	—	34 2	25 0	4 2	—
Painters, construction and maintenance.....	246	234	12	207	12	207	14	—	30	—	38 8	40 0	—	—
Plumbers, pipefitters, and steamfitters.....	126	118	8	77	8	77	25	—	30	—	28 5	48 3	—	—
Other construction trades.....	126	118	8	77	8	77	25	—	30	—	28 5	48 3	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

	United States																
	Race						Groceries and farm products										
	White			Black			Spanish origin¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Total	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.																	
Precision production, craft, and repair occupations—Con.																	
Extrusive occupations																	
55	38	17	32	6 096	3	—	—	14	44.1	48.9	52.6	17.6	13.2	—	26.3	—	—
62 032	54 068	7 964	44 198	2 311	5 852	6 461	871	39.5	38.4	61.4	54.0	6.2	2.0	26.3	2.0	—	—
30 833	28 068	2 765	24 508	2 311	2 197	2 177	234	40.9	41.8	70.0	63.3	9.7	3.7	1.9	2.6	—	—
973	878	95	780	60	17	117	18	40.6	35.2	56.0	58.9	1.0	6.3	—	—	—	—
63	63	—	35	—	—	—	—	37.8	—	38.1	—	—	—	—	—	—	—
750	681	69	611	45	29	104	18	42.3	41.1	55.1	43.5	0.7	—	—	—	—	—
65	65	—	—	—	—	—	—	45.4	—	—	—	—	—	—	—	—	—
95	69	26	65	15	—	13	—	29.0	25	66.7	100.0	6.2	23.1	—	—	—	—
27	194	4	180	64	7	6	—	36.7	34.6	44.3	50.6	—	—	6.7	—	—	—
29 187	24 194	4 993	18 118	3 397	7 700	4 091	612	37.0	36.6	51.7	48.8	2.4	1.0	3.5	1.8	—	—
24	24	—	—	—	—	—	—	37.0	—	100.0	—	8.3	—	—	—	—	—
597	584	13	521	5	8	16	—	43.2	25	62.7	100.0	8.0	—	1.2	—	—	—
141	126	15	107	15	—	54	7	47.5	30.0	57.9	—	—	—	4.0	—	—	—
Operators, fabricators, and laborers																	
323 707	272 263	51 444	224 659	35 999	9 523	26 015	9 390	32.9	38.2	61.3	42.7	2.8	1.1	2.4	0.9	—	—
51 386	27 507	23 879	20 177	16 574	4 002	4 814	5 272	34.2	39.9	49.9	39.3	32.4	2.7	1.0	0.4	—	—
23 649	15 974	7 675	11 786	5 154	1 855	2 459	872	34.2	37.8	49.9	43.9	2.4	1.1	0.8	0.6	—	—
505	442	63	327	63	—	50	—	30.9	35.4	50.7	25.4	1.4	—	0.5	—	—	—
Metalworking and plastic working machine operators																	
Fabricating machine operators, n.e.c.																	
Metal and plastic processing and woodworking machine operators																	
269	167	102	123	43	47	—	12	30.1	31.3	53.3	54.9	4.2	—	—	—	—	—
591	380	211	362	175	10	10	6	29.0	36.7	80.3	65.4	3.4	—	2.4	—	—	—
229	118	78	118	48	30	8	7	26.9	40.8	49.0	39.7	1.3	9.0	1.3	—	—	—
110	57	53	40	31	6	11	3	45.4	44.8	49.1	15.1	—	—	—	—	—	—
Textile sewing machine operators																	
37	6	31	6	21	—	—	10	25	40.6	33.3	—	—	—	—	—	—	—
2 325	1 333	992	1 043	756	181	185	97	35.1	41.8	55.0	46.5	2.0	1.4	0.5	0.8	—	—
337	319	18	231	18	—	22	42.1	41.3	48.1	61.1	27.8	2.8	—	0.9	—	—	—
4 151	4 151	1 639	3 682	1 979	368	410	231	34.4	34.5	50.2	42.4	3.6	0.7	1.4	1.5	—	—
13 456	8 968	4 488	6 221	2 020	1 834	1 763	506	34.3	37.8	47.3	43.6	1.9	1.1	0.5	0.4	—	—
Miscellaneous and not specified machine operators																	
4 657	2 901	1 756	2 216	1 110	431	379	288	31.3	36.5	51.9	44.9	2.4	0.3	2.3	1.1	—	—
988	974	14	794	14	88	114	14	32.2	47.2	51.3	2.6	—	—	3.1	—	—	—
Welders and others																	
Solders and brazers																	
2 694	1 346	1 348	974	892	287	192	194	31.1	35.0	52.2	47.7	2.0	0.4	2.2	0.5	—	—
975	581	394	448	204	56	73	38.9	30.1	38.9	52.3	37.1	3.3	—	1.0	3.3	—	—
23 080	8 632	14 448	6 175	10 310	1 312	1 976	4 112	29.7	41.5	49.1	36.2	3.3	0.6	0.8	0.1	—	—
19 329	5 828	13 501	3 970	9 704	845	1 684	4 006	28.2	41.6	37.3	35.1	2.4	0.6	1.2	0.1	—	—
Other production inspectors, testers, samplers, and weighers																	
3 751	2 804	947	2 205	606	467	292	106	31.7	40.5	73.7	51.0	5.1	1.4	—	—	—	—
Transportation and material moving occupations																	
166 511	163 520	2 991	140 735	2 665	16 276	11 676	165	34.8	31.4	66.4	65.9	2.8	5.1	3.6	6.7	—	—
148 290	145 733	2 557	127 105	2 318	13 372	9 442	110	34.9	31.2	67.5	67.3	2.9	5.2	4.0	7.8	—	—
148 111	145 569	2 542	126 961	2 303	13 352	9 437	110	34.9	31.2	67.5	67.3	2.9	5.2	4.0	7.9	—	—
99 489	97 807	1 682	82 071	1 497	11 424	7 677	70	32.6	32.6	62.1	62.1	2.2	4.0	3.3	6.0	—	—
44 393	43 609	784	41 208	732	606	451	40	36.6	29.8	78.1	78.7	4.3	7.3	6.0	9.2	—	—
4 229	4 153	76	3 682	74	322	309	—	37.9	30.2	70.1	64.5	3.9	9.2	7.3	—	—	—
179	164	15	144	15	20	5	—	40.0	47.5	44.5	33.3	5.5	—	0.3	—	—	—
18 221	17 787	434	13 630	347	2 904	2 234	55	33.3	32.3	57.5	59.0	2.0	4.8	0.1	—	—	—
344	342	2	320	2	7	40	—	32.9	30.0	83.3	100.0	14.9	—	—	—	—	—
190	189	1	154	1	28	32	—	36.8	36.8	43.9	100.0	3.7	—	—	—	—	—
83	81	2	55	2	20	13	—	32.2	25	35.8	—	—	—	—	—	—	—
17 604	17 175	429	13 101	342	2 849	2 149	55	33.5	32.4	57.3	59.0	1.7	4.9	0.1	—	—	—
Other material moving equipment operators																	
105 810	81 236	24 574	63 747	16 760	12 005	9 525	3 953	28.7	37.7	55.0	43.3	2.8	1.0	0.6	0.7	—	—
Handlers, equipment cleaners, helpers, and laborers																	
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.																	
125	125	97	21	21	—	7	—	40.5	—	48.8	—	12.0	—	—	—	—	—
1 164	920	244	537	206	265	132	30	30.5	41.9	45.0	38.9	1.7	—	—	2.5	—	—
270	262	8	225	2	25	60	—	35.0	41.7	39.3	75.0	2.3	—	—	—	—	—
32 766	30 732	2 034	24 882	1 603	4 207	3 191	120	25.4	33.5	53.6	56.5	2.2	1.8	0.5	1.3	—	—
Freight, stock, and material handlers																	
Garage and service station occupations, and equipment cleaners																	
1 743	1 569	174	1 304	144	183	134	48	28.6	34.7	51.9	44.8	3.3	2.9	0.3	—	—	—
22 919	8 142	14 777	5 349	10 650	1 885	1 627	2 896	28.5	38.1	42.4	42.6	3.3	3.1	1.0	0.6	—	—
46 823	39 486	7 337	31 357	4 155	5 419	4 374	859	30.6	37.7	59.2	41.0	2.3	1.9	0.7	0.7	—	—
Laborers, except construction																	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Retail trade, total											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Black		Male	Female	Male	Female	Male	Female
	Male	Female	Male	Female	Male	Female						
United States												
Employed persons 16 years and over	7 712 295	8 004 399	6 808 982	7 183 064	514 968	520 661	487 222	359 035	30.5	31.4	67.7	68.6
Managerial and professional specialty occupations	1 951 858	1 225 081	1 131 476	669 594	45 437	31 485	48 147	24 746	36.4	35.1	87.7	83.9
Executive, administrative, and managerial occupations	1 633 757	1 055 887	974 410	529 834	39 396	26 995	42 506	20 255	36.2	35.5	86.8	83.0
Officials and administrators, public administration	98	18	61	18	7	5	—	—	32.8	32.7	79.4	83.3
Financial managers	31 490	18 987	12 503	6 182	366	380	582	346	37.0	36.2	95.7	92.1
Managers, marketing, advertising, and public relations	186 506	131 334	125 473	51 356	3 205	2 327	3 688	1 543	37.1	35.7	91.3	88.2
Administrators, education and related fields	823	565	532	227	25	24	21	8	43.5	42.9	87.6	85.7
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	59 228	36 174	23 054	11 225	1 709	1 089	2 112	914	34.8	35.5	88.1	85.7
Managers and administrators, n.e.c.	1 155 130	773 461	381 669	349 291	30 579	17 399	32 727	13 940	36.2	36.3	85.1	79.6
Salaries	946 593	639 525	307 068	282 138	26 056	14 926	26 347	10 638	34.3	33.7	87.3	81.3
Self-employed	208 537	133 936	120 246	67 153	4 523	2 473	6 380	3 302	45.5	45.4	74.9	72.9
Management related occupations	200 482	95 298	105 184	88 658	3 505	5 771	3 376	3 494	34.9	33.2	91.6	90.5
Accountants and auditors	50 603	23 933	26 670	21 668	932	1 757	995	1 150	34.3	33.9	94.0	90.5
Personnel, training, and labor relations specialists	29 113	13 932	15 181	12 598	834	1 029	665	655	33.3	33.4	86.5	85.6
Buyers and purchasing agents	111 933	52 240	59 693	49 577	1 497	2 696	1 532	1 538	36.0	33.0	90.5	90.2
Inspectors and compliance officers	971	662	309	226	35	55	77	27	35.4	35.7	74.8	67.6
Other management related occupations	7 862	4 531	3 331	3 001	207	234	124	124	36.5	34.0	90.5	92.1
Professional specialty occupations	318 101	169 194	148 907	139 760	6 041	4 490	5 641	4 491	37.6	33.9	93.4	87.4
Engineers, architects, and surveyors	8 250	7 426	6 971	6 224	239	25	193	29	36.2	32.3	94.1	82.5
Architects	1 552	1 298	1 201	1 031	57	7	60	26	37.4	32.5	95.2	90.9
Engineers	6 698	6 091	5 770	5 193	182	18	133	3	35.9	32.2	94.0	85.9
Civil engineers	736	696	660	600	40	3	32	3	34.3	32.5	89.4	75.0
Electrical and electronic engineers	971	918	845	753	7	7	29	3	32.6	39.5	95.9	100.0
Industrial engineers	1 329	1 053	983	825	46	46	15	3	39.3	33.4	96.0	90.0
Mechanical engineers	925	914	855	811	49	—	—	—	41.9	58.9	86.5	100.0
Other engineers	2 697	2 510	187	181	46	—	78	—	34.9	29.1	96.5	95.2
Surveyors and mapping scientists	40	37	37	3	—	—	—	—	36.7	40.0	78.4	100.0
Computer systems analysts and scientists	5 336	3 924	1 412	3 554	253	102	132	13	33.6	31.1	99.7	98.5
Operations and systems researchers and analysts	1 993	1 489	484	427	26	12	15	—	34.6	32.0	96.9	97.1
Mathematical scientists	708	459	323	217	12	53	58	—	36.1	36.1	90.4	90.4
Natural scientists	2 458	1 459	1 174	874	55	73	58	11	33.8	30.0	92.3	84.2
Chemists, except biochemists	1 960	1 314	815	511	33	22	22	—	35.3	29.9	96.8	84.2
Other natural scientists	3 730	3 124	1 256	753	77	58	58	11	33.4	30.0	91.1	84.2
Health diagnosing occupations	10 731	85 109	21 532	19 586	1 857	839	1 491	935	47.6	35.8	99.1	95.4
Health assessment and treating occupations	615	478	132	109	4	45	—	—	41.3	31.7	96.3	92.3
Registered nurses	105 116	84 631	20 485	18 529	1 853	792	1 491	914	34.6	31.4	98.3	97.4
Other health assessment and treating occupations	14 374	4 022	10 352	3 733	168	199	147	150	28.8	39.0	87.1	96.3
Teachers, except postsecondary	3 788	2 266	1 522	1 359	58	121	61	29	36.1	29.7	97.9	96.1
Social scientists and urban planners	986	332	654	297	16	45	37	3	31.3	38.7	80.4	75.8
Social and recreation workers	1 787	1 416	371	368	3	29	39	—	38.6	32.1	98.8	100.0
Lawyers and judges	165 273	56 929	108 344	51 414	3 199	2 922	3 417	3 118	33.4	34.2	84.5	85.2
Writers, artists, entertainers, and athletes	2 792	1 598	1 194	1 092	59	44	23	54	40.6	38.1	88.4	87.0
Other professional specialty occupations	7 351 446	2 688 560	4 662 886	4 224 627	141 899	283 307	138 373	207 702	33.6	32.6	77.4	73.3
Technical, sales, and administrative support occupations	38 242	24 783	21 078	12 776	1 219	759	1 032	501	31.7	30.9	89.1	89.5
Technicians and related support occupations	3 374	743	660	1 454	50	112	—	78	33.9	30.6	81.6	81.5
Health technicians and technicians	321	312	289	321	—	48	—	13	33.4	34.9	71.9	62.6
Licensed practical nurses	2 053	711	1 342	1 233	50	64	21	65	33.9	29.8	85.5	75.5
Other health technicians and technicians	11 706	9 363	2 343	8 445	516	283	529	342	32.4	29.8	86.7	86.2
Engineering and science technicians	5 206	4 697	509	4 263	250	84	198	34	32.6	29.8	91.4	89.4
Electrical and electronic technicians	469	424	45	389	20	13	80	—	25	—	49.5	62.5
Industrial and mechanical engineering technicians	3 225	2 407	818	2 142	145	33	153	39	32.1	27.7	87.7	92.1
Drafting and surveying technicians	2 806	1 835	971	1 651	101	153	98	14	34.6	31.0	79.7	79.7
Other engineering and science technicians	24 142	14 074	10 088	9 382	653	364	502	336	31.2	30.5	91.2	91.6
Technicians, except health, engineering, and science	716	492	24	685	—	—	—	—	36.9	35.0	94.5	94.8
Airplane pilots and navigators	571	453	118	439	24	24	24	7	25.9	25.0	83.2	72.9
Air traffic controllers and broadcast equipment operators	10 052	6 678	3 374	2 954	287	238	181	125	30.2	29.1	97.4	96.8
Computer programmers	12 823	6 251	6 572	6 293	335	126	286	204	32.6	31.7	84.4	84.4
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	—	—	—	—
Percent completed 4 or more years of college	11.3	5.7	11.3	5.7	11.3	5.7	11.3	5.7	11.3	5.7	11.3	5.7
Percent self-employed	9.9	5.2	9.9	5.2	9.9	5.2	9.9	5.2	9.9	5.2	9.9	5.2

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States	Retail trade, total											
	Race						Median age		Percent high school graduates		Percent completed 4 or more years of college	
	Total		White		Black		Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.												
Sales occupations	5 779 029	2 330 896	3 448 133	2 141 828	3 113 343	2 142 922	105 903	214 922	114 015	158 454	31 5	69.6
Supervisors and proprietors, sales occupations	1 242 920	857 237	385 683	799 060	359 007	14 906	29 136	14 906	35 015	13 216	38.8	80.1
Salaries	859 138	589 824	250 827	550 369	250 827	20 973	20 973	11 497	20 973	9 306	34.4	86.1
Self-employed	383 782	267 413	116 369	248 691	108 180	8 163	8 163	3 407	10 283	3 910	46.9	76.2
Sales representatives, finance and business services	7 795	3 719	4 076	3 526	3 764	135	135	107	107	182	31.9	88.8
Sales representatives, commodities, except retail	1 512	1 408	104	1 375	92	12	14	12	19	107	37.0	89.3
Sales workers, retail and personal services	4 516 081	1 465 649	3 050 432	1 335 158	2 743 055	76 471	199 569	107 731	78 792	144 913	31.6	75.5
Cashiers	1 449 531	233 146	216 385	1 195 869	1 056 218	20 879	107 731	19 475	67 543	25	25	64.3
Other sales occupations, retail and personal services	3 066 550	1 232 503	1 834 047	1 139 289	1 686 837	55 592	91 838	59 317	77 370	77 143	33.3	77.2
Sales related occupations	10 721	2 883	7 838	2 709	7 425	147	235	82	39 317	14 8	11.0	82.9
Administrative support occupations, including clerical	1 534 175	333 484	1 200 691	282 332	1 098 506	34 777	67 626	48 747	23 306	48 747	27.5	72.4
Supervisors, administrative support occupations	84 715	33 034	51 681	29 128	47 544	2 643	2 643	2 009	1 990	2 009	33.8	85.6
Computer equipment operators	26 140	8 514	17 626	7 100	15 569	993	1 443	855	536	855	37.0	87.5
Secretaries, stenographers, and typists	225 942	3 113	195 464	2 345	184 581	2 997	9 043	8 493	286	8 493	35.2	82.5
Stenographers and typists	27 365	930	26 435	789	22 552	102	2 731	1 594	107	1 594	29.4	84.9
Receptionists	25 455	763	24 692	696	22 598	37	1 173	63	1 464	63	25.3	81.1
Other information clerks	22 312	2 365	19 947	2 010	17 734	198	1 538	167	1 044	167	27.2	81.1
File clerks	12 962	1 115	11 847	906	9 798	145	1 545	83	723	83	25	65.0
Other records processing occupations, except financial	83 641	22 450	61 191	18 911	53 986	2 272	5 986	2 155	2 946	2 155	28.0	77.4
Bookkeepers, accounting, and auditing clerks	392 232	24 644	367 588	22 391	350 502	1 018	8 485	10 292	285	10 292	39.7	86.5
Payroll and timekeeping clerks	13 707	782	12 925	4 383	11 950	28	1 579	32	1 579	32	32.4	87.0
Other financial records processing occupations	37 095	4 963	32 132	4 383	22 170	249	1 579	445	1 340	445	28.8	73.2
Telephone operators	22 140	12 196	9 946	9 458	15 051	1 739	1 739	461	461	461	25	75.0
Mail and message distributing occupations	47 888	13 491	31 397	11 848	27 498	1 025	3 093	928	1 260	928	29.4	69.4
Production coordinators and expeditors	77 472	50 028	27 444	40 470	23 109	6 974	3 093	3 292	4 320	3 292	33.2	73.2
Stock and inventory clerks	139 146	94 007	45 139	77 067	39 366	12 212	2 121	4 108	6 396	4 108	25.9	62.7
Other materials recording, scheduling, and distributing clerks	31 008	10 175	20 833	8 914	11 919	956	2 591	572	1 500	572	32.9	68.0
Adapters and investigators	37 423	10 174	27 249	8 938	23 204	894	3 019	401	1 656	401	31.6	82.8
Data-entry keyers	28 731	2 115	26 616	3 742	23 430	170	1 701	155	1 551	155	30.5	78.5
Other administrative support occupations	219 109	38 306	180 803	33 742	164 241	2 858	10 974	2 223	7 975	2 223	27.7	70.9
Service occupations	3 466 750	1 354 174	2 112 576	1 074 174	1 851 970	144 071	163 773	96 456	142 775	96 456	25	46.3
Private household occupations	44 978	29 207	15 771	22 951	13 076	4 887	2 163	1 764	1 764	1 764	31.6	71.3
Protective service occupations	42 411	27 161	15 250	21 159	12 626	4 686	2 097	1 653	1 653	1 653	31.7	72.3
Guards	2 567	2 046	521	1 792	450	201	66	111	111	111	30.7	90.9
Other protective service occupations	3 421 772	1 324 967	2 096 805	1 051 223	1 838 894	139 184	161 610	141 011	95 527	25	25.8	45.8
Service occupations, except protective and household	3 177 197	1 164 115	2 013 082	930 522	1 773 183	109 877	148 032	125 151	90 048	125 151	25.5	46.2
Food preparation and service occupation	18 681	3 236	15 445	2 788	14 157	247	803	159	638	159	28.4	74.1
Health service occupations	192 484	150 962	41 522	112 305	28 302	28 443	10 648	3 311	15 189	3 311	41.6	61.0
Cleaning and building service occupations, except household	33 410	6 654	26 756	5 608	23 252	617	2 127	512	1 530	512	30.1	71.4
Personal service occupations	14 641	8 955	5 686	7 374	5 189	901	193	889	252	889	29.9	49.6
Farming, forestry, and fishing occupations	266 536	1 101 324	165 212	1 002 903	144 086	55 545	12 725	65 445	10 413	39.1	33.8	68.4
Precision production, craft, and repair occupations	619 544	608 874	10 670	559 633	9 161	28 700	1 841	29 389	365	365	32.3	74.1
Mechanics and repairers	40 027	38 738	1 289	37 731	1 150	495	161	776	19	19	38.3	82.5
Supervisors, mechanics and repairers	395 735	392 047	3 688	356 618	3 107	20 824	457	20 545	149	149	31.0	69.7
Automobile mechanics, including body	12 456	12 078	378	10 968	272	785	97	504	18	18	35.0	68.4
Industrial machinery repairers	28 637	28 272	365	26 261	341	1 006	24	1 307	24	24	30.8	81.3
Electronic repairers, communications and industrial equipment	15 463	15 330	133	14 254	97	657	36	607	155	155	35.6	71.8
Heating, air conditioning, and refrigeration mechanics	127 226	122 409	4 817	113 801	4 194	4 933	463	5 650	308	308	37.5	76.0
Other mechanics and repairers	112 287	109 287	3 000	99 761	2 776	5 052	140	7 956	97	97	32.6	73.7
Construction trades	3 850	3 706	144	3 492	137	146	146	1 351	16	16	34.3	76.4
Supervisors, construction occupations	23 621	23 000	621	21 212	531	911	66	1 345	8	8	35.1	70.2
Carpenters	7 542	6 403	139	5 883	123	244	16	329	29	29	34.8	68.3
Electricians	6 247	6 536	739	5 629	711	595	15	664	34	34	35.7	77.5
Painters, construction and maintenance	3 256	3 401	35	2 887	35	2 117	35	172	35	35	32.4	55.7
Plumbers, pipefitters, and steamfitters	67 743	66 441	1 302	60 658	1 219	2 939	36	5 295	38	38	31.2	66.2
Other construction trades												

Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States																	
	Employed persons 16 years and over—Con.																	
	Race				Spanish origin ¹				Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
	Total		White		Black		Male		Female		Male		Female		Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Precision production, craft, and repair occupations—Con.																		
Extrusive occupations	447	419	329	12	87	16	14	29.4	53.0	78.6	13.8	—	1.2	7.5				
Precision production occupations	534 258	382 744	151 514	132 137	21 706	11 408	28 086	40.0	69.1	66.9	6.4	5.2	10.5	7.5				
Supervisors, production occupations	149 677	102 878	46 799	41 107	6 694	4 127	5 758	38.8	78.8	77.9	13.1	8.1	6.5	5.3				
Precision metalworking occupations	19 710	15 383	4 327	3 806	745	245	1 358	29.7	71.0	74.0	3.0	11.7	14.8	11.4				
Tool and die makers	5 765	5 402	363	30	29	12	12	32.3	76.3	60.4	3.8	—	9.0	—				
Machinists	849	785	64	64	359	60	249	32.6	67.9	52.6	2.2	3.9	2.0	2.5				
Sheet metal workers	12 736	8 884	3 852	7 904	275	173	1 041	30.5	66.9	72.1	4.6	21.9	3.1	29.7				
Other precision metal, wood, and furnishings machine workers	72 796	23 770	49 026	40 576	1 990	4 192	3 896	29.3	73.4	76.2	10.3	12.5	23.8	12.0				
Precision food production occupations	234 979	194 734	40 245	36 301	10 446	2 433	14 861	37.1	46.1	54.7	3.4	3.8	23.2	9.5				
Precision inspectors, testers, and related workers	8 257	7 320	937	892	290	44	44	29.3	65.0	63.0	2.4	2.5	6.9	7.5				
Plant and system operators	3 384	3 237	147	127	198	20	11	30.0	67.9	72.8	7.9	4.8	2.2	4.8				
Other precision production occupations	45 455	35 422	10 033	9 328	1 343	351	1 633	38.2	75.4	85.4	11.0	7.0	34.3	7.9				
Operators, fabricators, and laborers	1 665 463	1 334 201	331 262	287 598	127 115	29 178	91 593	32.2	50.9	60.2	2.5	2.4	2.4	3.7				
Machine operators, assemblers, and inspectors	149 258	90 391	58 867	48 411	10 403	7 182	4 655	37.8	56.7	60.0	4.5	4.5	7.2	10.9				
Machine operators and tenders, except precision	96 360	57 825	38 535	46 424	7 452	4 883	3 292	31.6	55.7	59.2	4.1	4.5	4.5	7.2				
Metalworking and plastic working machine operators	3 008	2 418	819	452	284	96	445	31.9	47.1	62.9	2.8	—	3.8	—				
Fabricating machine operators, n.e.c.	272	160	112	110	32	2	6	46.9	60.0	51.8	3.8	—	6.3	—				
Metal and plastic processing and woodworking machine operators	5 871	4 980	891	623	663	204	345	36.1	48.9	57.7	4.0	3.3	11.2	8.4				
Printing machine operators	6 465	3 790	2 675	3 173	379	175	305	29.2	77.8	75.5	3.9	4.9	3.1	1.4				
Textile machine operators	969	473	496	386	91	90	48	37.9	44.2	77.6	1.5	2.0	13.7	6.3				
Textile sewing machine operators	9 034	875	8 159	620	183	910	174	37.5	39.8	51.4	—	2.0	13.7	6.3				
Laundry and dry cleaning machine operators	1 889	525	1 364	399	82	304	56	43.8	61.7	44.5	3.8	3.8	5.0	1.0				
Packaging and filling machine operators	1 803	845	958	757	129	128	85	28.9	53.5	49.5	3.2	4.0	2.5	1.0				
Furnace, kiln, and oven operators, except food	1 052	950	102	802	98	3	57	32.3	34.6	58.0	5.8	12.7	2.9	14.7				
Other specified machine operators	26 915	20 787	6 128	4 943	2 261	882	2 490	33.8	56.3	57.5	2.4	3.6	4.4	2.7				
Miscellaneous and not specified machine operators	39 082	22 022	17 060	14 216	3 250	2 089	2 563	32.1	54.5	62.3	6.0	6.0	10.0	25.2				
Fabricators, assemblers, and hand working occupations	40 762	27 217	13 545	11 829	2 358	1 140	2 193	33.1	57.5	65.0	5.0	9.6	8.0	8.2				
Welders and cutters	4 691	4 486	205	3 799	415	41	468	38.1	31.5	57.1	2.3	—	4.5	—				
Solders and brazers	100	63	37	46	—	—	6	32.4	25.5	43.2	9.5	21.6	9.5	—				
Assemblers	26 827	17 517	9 110	7 860	1 534	833	1 351	33.8	36.6	67.0	6.1	11.8	9.1	8.6				
Hand working occupations	9 344	5 151	4 193	4 486	409	261	347	31.6	32.1	61.4	3.7	5.2	7.4	7.8				
Production inspectors, testers, samplers, and weighers	12 386	5 349	6 787	5 220	593	1 159	485	40.0	62.9	54.3	7.0	2.6	3.1	0.7				
Graders and sorters, except agricultural	5 993	3 667	1 946	2 798	229	623	182	39.0	50.9	51.1	3.3	1.8	2.5	1.2				
Other production inspectors, testers, samplers, and weighers	6 143	3 043	3 100	2 422	364	536	303	41.5	72.0	58.0	9.9	3.6	3.5	0.2				
Transportation and material moving occupations	354 613	328 206	26 407	23 581	36 593	2 126	20 397	29.3	60.3	66.3	2.7	2.7	3.1	3.6				
Transportation occupations	321 352	297 391	23 961	21 626	31 742	1 739	17 987	29.0	60.1	66.0	2.7	2.8	3.3	3.9				
Motor vehicle operators	320 706	294 833	23 873	21 553	31 699	1 736	17 972	29.0	60.1	66.0	2.7	2.8	3.3	3.9				
Truck drivers	262 550	247 910	14 570	13 142	28 592	1 032	15 042	25.5	58.3	65.4	2.3	2.8	2.5	3.1				
Driver-sales workers	42 638	34 910	7 728	32 525	6 998	1 387	438	33.3	73.4	66.2	4.6	2.4	9.1	6.0				
Other motor vehicle operators	15 518	13 943	1 575	1 413	1 627	112	1 492	31.9	59.0	69.9	4.4	5.3	2.2	1.0				
Rail and water transportation occupations	646	558	88	73	1 562	3	15	33.0	55.7	62.3	2.6	1.7	0.9	1.3				
Material moving equipment operators	33 261	30 815	2 446	2 589	4 653	387	2 410	32.0	42.1	79.2	2.6	1.7	0.9	1.3				
Supervisors, material moving equipment operators	4 154	4 024	3 722	1 111	162	8	212	32.0	54.2	41.7	1.6	—	6.7	15.5				
Crane, hoist and winch operators	520	496	24	431	20	39	—	25.4	43.4	41.8	2.0	—	—	—				
Excavating, grading, and dozer machine operators	1 186	1 076	110	96	59	5	56	31.0	43.4	41.7	2.0	—	—	—				
Other material moving equipment operators	27 401	25 219	2 182	1 936	4 591	374	2 100	31.4	61.6	70.4	2.1	1.6	0.7	0.5				
Handlers, equipment cleaners, helpers, and laborers	1 161 592	915 604	245 988	215 606	80 119	19 870	61 938	31.2	47.0	59.6	2.2	1.7	1.7	2.0				
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	560	343	333	198	10	19	—	43.7	61.8	77.0	3.2	10.6	7.6	6.0				
Helpers, craft and production	15 679	11 827	3 852	3 392	1 755	260	1 190	35.2	42.5	55.8	1.5	1.7	1.3	3.4				
Construction laborers	2 832	2 688	1 144	1 222	402	72	196	29.9	57.2	50.7	6.4	2.8	—	—				
Freight, stock, and material handlers	622 279	499 470	122 809	109 635	37 978	8 138	33 250	27.2	46.4	61.8	2.3	1.7	0.5	2.0				
Grocery and service station occupations, and equipment cleaners	302 330	277 762	24 568	22 303	23 337	1 446	16 073	25.0	26.0	57.7	1.7	1.7	3.6	5.6				
Hand packers and packagers	83 093	115 396	67 697	59 102	2 151	5 711	2 249	25.0	37.9	57.4	2.7	1.2	1.2	0.5				
Laborers, except construction	134 819	108 118	26 701	20 854	14 486	4 274	8 980	32.9	58.0	57.0	3.1	2.7	2.0	2.4				

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																
General merchandise stores																
Race						Spanish origin ^a		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Both sexes	Male	Female	Male	Female	Male											Female
2 091 598	623 125	1 468 473	534 257	1 283 838	61 594	132 059	38 797	74 802	33.8	76.5	74.3	15.8	6.0	2.0	0.6	
241 877	113 114	128 763	104 268	116 800	5 893	8 411	3 601	4 010	33.7	94.2	87.7	41.2	23.0	2.0	0.8	
211 602	100 202	111 400	92 546	100 724	5 175	7 557	3 032	3 594	34.7	94.3	88.8	40.5	21.7	2.2	0.9	
6 809	3 416	3 393	3 229	3 173	98	142	59	108	38.7	98.3	90.8	65.8	17.6	0.4	—	
29 735	13 957	15 778	12 950	14 211	696	1 143	281	498	36.6	94.8	87.1	32.3	21.1	1.4	0.8	
112	54	58	54	45	—	13	6	—	45.5	100.0	75.9	37.0	31.0	11.1	—	
20 373	10 162	10 211	9 648	9 483	379	526	275	281	34.5	97.5	88.6	53.3	24.0	0.6	0.5	
89 863	50 691	39 172	46 538	35 530	2 774	2 691	1 753	1 384	34.8	92.9	83.1	33.1	14.0	0.6	1.7	
87 310	48 996	38 314	44 926	34 675	2 744	2 691	1 726	1 370	34.4	93.4	83.0	33.5	14.1	3.2	1.7	
2 553	1 695	858	1 612	855	—	—	27	14	49.6	77.9	85.1	21.3	9.1	96.9	77.3	
64 690	21 914	42 776	20 119	38 282	1 228	3 037	658	1 323	33.5	95.2	89.5	53.0	28.7	1.2	0.3	
10 734	3 676	7 058	3 210	5 859	221	789	197	372	31.7	92.1	91.7	71.1	15.7	1.5	—	
7 997	1 935	6 062	1 676	5 508	195	372	93	195	33.4	93.4	89.4	40.5	20.4	1.0	0.2	
44 119	15 462	28 657	14 454	26 071	768	1 747	330	718	33.8	94.8	88.9	50.8	34.0	1.2	0.4	
182	89	93	89	73	—	—	—	—	37.6	93.3	50.5	16.9	4.3	—	—	
1 658	752	906	690	771	44	122	38	31	38.4	90.7	95.1	46.3	20.5	1.9	0.2	
30 275	12 912	17 363	11 722	16 076	718	854	569	416	32.2	93.4	93.0	46.6	31.2	0.7	0.6	
1 216	1 091	125	1 014	97	42	11	42	—	41.0	96.2	96.0	54.1	41.6	0.6	—	
324	285	39	279	39	6	—	12	—	42.2	99.0	100.0	74.7	25.6	2.5	—	
892	806	86	735	58	36	11	30	—	40.3	94.8	94.2	46.8	48.8	—	—	
79	79	—	69	—	—	—	—	—	37.1	100.0	—	62.0	—	—	—	
103	95	8	85	8	10	—	8	—	35.7	93.7	100.0	43.2	100.0	—	—	
262	195	67	179	39	5	11	8	—	39.3	100.0	92.5	71.8	43.3	—	—	
192	192	—	177	—	15	—	8	—	49.2	83.9	—	5.7	—	—	—	
256	245	11	225	11	6	—	14	—	37.4	98.0	100.0	55.5	45.5	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1 056	740	316	645	232	69	63	19	4	33.0	99.1	96.5	59.5	55.7	—	—	
608	418	190	388	170	13	12	—	—	34.0	100.0	100.0	68.7	18.4	0.5	—	
290	24	266	17	223	—	28	—	17	35.0	100.0	92.9	100.0	36.2	—	—	
164	50	114	41	114	—	—	—	—	33.8	100.0	86.0	48.0	14.0	—	—	
17	—	17	—	—	—	—	—	—	25	—	—	64.7	—	—	—	
147	50	97	41	97	—	—	—	—	33.8	100.0	83.5	48.0	5.2	—	—	
—	87	31	87	31	—	—	—	—	51.1	92.0	83.9	62.1	45.2	6.9	—	
2 859	1 820	1 039	1 700	1 002	53	11	36	38	35.0	99.3	96.5	94.0	55.4	0.1	—	
441	17	424	13	424	4	—	6	—	41.4	50.9	96.9	64.7	29.0	—	—	
2 418	1 803	615	1 687	578	49	11	36	32	35.0	99.3	96.3	94.2	73.7	0.1	—	
918	136	782	119	753	13	21	—	26	33.5	100.0	91.2	33.1	34.3	—	1.3	
439	206	233	199	213	3	20	15	—	34.6	99.0	95.7	71.4	54.5	—	—	
126	22	104	16	89	—	—	—	—	25	100.0	71.2	—	5.8	—	—	
599	429	170	409	144	5	26	24	—	40.1	98.4	100.0	98.4	92.9	2.1	2.9	
21 719	7 870	13 849	7 068	12 906	520	611	433	331	33.3	31.8	92.9	28.9	27.8	0.7	0.7	
163	19	144	19	102	—	36	—	—	52.3	100.0	83.3	31.6	12.5	—	—	
1 513 170	307 190	1 205 980	265 310	1 059 167	28 679	103 779	18 759	62 901	28.7	79.7	74.1	14.0	4.5	2.9	0.6	
6 459	4 596	1 863	4 060	1 529	323	244	249	69	33.5	90.3	93.7	20.1	29.7	0.2	1.0	
168	75	93	69	79	26	14	—	—	32.7	92.0	75.3	37.3	—	—	—	
43	12	31	12	31	—	—	—	—	35.0	100.0	51.6	100.0	—	—	—	
125	63	62	37	48	26	14	—	—	32.3	90.5	87.1	25.4	—	—	—	
2 072	1 747	325	1 582	239	111	72	94	9	35.8	90.2	90.5	8.5	23.1	0.4	1.5	
1 205	1 138	67	1 035	62	69	5	53	37	37.0	88.2	100.0	3.2	16.4	—	—	
52	52	—	52	—	—	—	14	—	25	—	—	13.5	—	—	—	
533	419	114	372	89	27	18	14	9	32.5	96.9	93.9	22.9	28.9	1.7	—	
—	282	138	144	123	88	15	49	13	36.8	32.5	90.6	83.3	21.5	—	3.5	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
4 219	2 774	1 445	2 429	1 211	186	158	155	60	32.5	29.9	95.6	27.0	33.1	0.1	0.9	
—	56	—	56	—	—	—	—	—	40.7	100.0	—	32.1	—	—	—	
62	5	57	5	57	—	—	5	—	60.0	—	86.0	—	10.5	—	—	
2 415	1 494	921	1 284	768	82	101	63	39	30.9	98.3	98.7	43.4	45.5	—	1.4	
1 686	1 219	467	1 084	386	104	57	92	21	35.7	80.2	90.6	6.6	11.3	0.2	—	

^aPersons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	General merchandise stores															
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female		
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con																
Sales occupations																
1 130 668	234 310	896 358	206 961	790 572	18 422	74 038	46 399	29 8	32.5	81.1	71.5	15.3	4.5	3.6	0.7	
160 510	75 772	84 738	69 444	77 492	4 091	5 072	3 090	34.5	34.7	91.2	79.9	25.5	11.2	8.4	4.1	
150 056	69 259	80 797	63 375	73 805	3 750	4 967	2 957	32.1	34.1	92.7	80.4	26.6	11.3	9.7	87.9	
10 454	6 513	3 941	6 069	3 687	341	115	130	126	51.5	49.0	75.7	71.3	13.6	9.8	—	
1 795	512	1 283	468	1 338	36	96	26	63	32.2	30.6	94.7	89.3	39.5	17.1	—	
69	53	16	47	16	6	—	—	—	57.0	43.1	100.0	67.9	—	13.2	0.5	
966 471	157 782	808 689	136 832	710 451	14 268	68 779	9 893	43 158	25.0	32.9	76.2	70.6	10.2	3.8	0.3	
195 253	11 618	183 635	9 010	154 197	1 753	21 149	1 149	12 561	25—	25—	62.5	66.4	6.1	1.8	0.2	
771 218	146 164	625 054	127 822	556 254	12 515	47 630	8 727	30 597	26.3	34.9	77.3	71.8	10.6	4.3	0.4	
1 823	191	1 632	170	1 475	21	91	—	32	43.8	42.4	69.6	86.0	28.3	17.7	1.3	
Administrative support occupations, including clerical																
376 043	68 284	307 759	54 289	267 066	9 934	29 497	5 501	16 433	25—	35.7	81.6	9.3	4.2	0.5	0.2	
26 221	7 283	18 938	6 187	17 058	715	1 384	454	808	32.9	40.0	91.2	84.1	20.7	5.5	0.3	
6 608	2 468	4 140	1 823	3 263	495	640	208	284	29.3	31.0	92.8	85.9	13.5	6.4	0.7	
31 979	396	31 583	306	27 644	69	2 754	51	1 779	29.1	33.3	87.1	91.0	23.7	4.7	0.1	
26 176	236	25 940	174	23 321	52	1 729	16	1 394	32.2	33.5	85.6	91.8	21.6	5.1	0.1	
5 803	160	5 643	132	4 323	17	1 025	35	385	25.2	32.1	89.4	79.8	26.9	2.9	—	
4 038	82	3 956	82	3 403	—	401	12	273	25—	31.1	78.0	79.8	7.3	3.6	—	
11 885	701	11 184	560	9 849	61	960	56	593	25—	34.8	86.7	83.7	18.5	5.2	—	
3 134	301	2 833	226	2 044	40	628	47	186	25—	32.4	75.0	75.7	6.4	3.5	0.2	
28 384	3 537	24 847	2 926	21 843	457	2 303	299	1 274	25.4	35.5	74.3	80.2	9.6	3.9	0.9	
46 863	2 048	44 815	1 624	40 534	204	2 785	262	1 869	28.8	36.2	86.8	86.7	21.0	4.4	3.8	
4 393	136	4 257	114	3 845	—	285	25	172	29.1	37.9	93.4	86.1	20.6	2.7	0.1	
9 808	687	9 121	596	7 975	51	768	25	541	25—	38.1	73.4	77.9	15.7	2.4	—	
8 007	161	8 646	125	7 714	24	743	22	306	25—	38.8	76.4	78.0	7.5	2.2	—	
15 889	2 097	13 792	1 769	11 847	364	331	181	172	25—	35.6	73.4	74.2	8.2	3.4	0.7	
30 846	16 219	14 627	12 862	12 424	212	1 559	169	652	25—	34.2	75.1	78.6	13.3	3.4	0.6	
38 344	21 227	17 117	16 645	14 526	2 533	1 678	1 353	753	26.0	37.3	76.3	73.7	4.6	2.8	0.1	
39 329	21 227	17 117	16 645	14 526	3 329	1 891	1 594	1 001	25—	33.4	60.5	70.7	4.4	3.0	0.2	
19 123	2 645	16 478	2 154	13 899	258	1 665	1 007	1 028	26.8	43.3	67.2	65.8	5.9	1.4	—	
10 157	410	9 747	271	7 289	68	1 752	49	769	25—	31.5	86.3	86.9	8.5	3.4	0.1	
61 713	4 997	56 716	3 956	49 693	684	5 062	373	2 971	25—	36.6	76.2	79.9	12.9	4.2	0.2	
Service occupations																
115 178	52 659	62 519	39 125	48 785	10 504	11 256	4 690	3 191	30.9	36.3	55.9	59.4	5.3	2.7	0.3	
Private household occupations																
25 797	13 459	12 338	10 902	10 262	2 043	1 709	745	684	—	—	—	—	—	—	—	
24 211	12 272	11 939	9 866	9 916	1 917	1 661	687	673	31.3	32.0	76.8	73.6	10.9	6.2	0.2	
1 586	1 187	399	1 036	346	126	48	58	11	30.8	32.0	94.8	93.7	25.9	9.4	0.1	
89 381	39 200	50 181	28 223	38 523	8 461	9 547	3 945	2 507	34.1	30.2	94.8	93.7	25.9	18.0	0.4	
43 070	7 861	35 409	5 768	28 332	1 397	5 822	830	1 319	25—	37.5	48.7	55.9	3.4	1.8	0.6	
531	81	450	73	435	—	15	8	32	36.9	44.9	54.2	54.2	2.9	1.4	0.5	
37 027	30 152	6 875	21 329	3 435	6 872	2 801	951	606	32.1	28.5	100.0	82.4	51.9	1.6	8.6	
8 753	1 306	7 447	1 053	6 096	192	909	156	550	35.3	47.1	48.7	42.2	3.1	1.6	0.2	
Farming, forestry, and fishing occupations																
400	264	136	188	123	44	13	29	8	39.2	27.0	45.8	61.0	—	—	5.1	
Precision production, craft, and repair occupations																
95 506	64 622	30 884	55 870	25 980	5 489	3 390	4 584	1 996	35.3	43.3	75.8	69.7	5.5	5.5	0.5	
41 153	39 001	2 152	34 077	1 707	2 905	382	2 677	69	32.3	29.2	76.6	79.0	2.2	4.8	0.4	
1 171	1 007	164	951	131	26	33	53	—	38.4	50.3	85.9	89.0	10.3	12.8	—	
18 992	18 380	612	15 643	504	1 590	22	1 398	21	25.6	25—	72.6	77.3	1.3	3.3	0.2	
1 333	1 265	68	1 014	46	160	22	90	—	33.7	28.6	74.1	80.9	2.8	—	0.6	
Electronic repairers, communications and industrial equipment																
3 404	3 404	76	3 038	68	179	8	335	—	42.5	32.2	87.1	68.4	3.6	—	0.4	
1 509	1 493	16	1 293	6	110	10	136	—	37.6	33.0	81.2	100.0	2.9	—	0.8	
14 668	13 452	1 216	12 138	952	840	215	665	48	38.3	31.3	78.6	78.8	2.4	5.2	0.6	
Construction trades																
6 543	6 257	286	5 582	280	361	—	499	21	42.9	36.2	67.7	76.2	4.5	9.1	3.8	
696	646	50	594	50	42	10	42	10	44.1	36.4	83.7	86.0	13.8	20.0	—	
2 264	2 240	24	2 112	24	30	—	120	—	43.5	35.0	63.0	63.3	3.8	—	2.7	
1 015	983	32	826	32	69	—	67	—	43.4	36.7	80.3	65.6	3.9	—	0.6	
847	809	38	693	38	85	—	122	5	48.2	30.5	59.2	76.3	2.7	42.1	1.0	
196	181	15	159	15	22	—	159	6	46.2	25—	69.1	60.0	3.3	—	15.5	
1 525	1 398	127	1 198	121	150	—	137	—	34.8	45.1	63.7	85.0	—	—	9.7	

¹Persons of Spanish origin may be of any race.

Table 1. **Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.**

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

United States

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Extractive occupations
 Precision production occupations
 Supervisors, production occupations
 Precision metalworking occupations
 Tool and die makers
 Machine tools
 Sheet metal workers
 Other precision metal workers
 Precision textile, apparel, and furnishings machine workers
 Precision food production occupations
 Precision inspectors, testers, and related workers
 Plant and system operators
 Other precision production occupations

Operators, fabricators, and laborers
 Machine operators, assemblers, and inspectors
 Machine operators and tenders, except precision
 Metalworking and plastic working machine operators
 Fabricating machine operators, n.e.c.
 Metal and plastic processing and woodworking machine operators
 Printing machine operators
 Textile machine operators
 Textile sewing machine operators
 Laundering and dry cleaning machine operators
 Packaging and filling machine operators
 Furnace, kiln, and oven operators, except food
 Other specified machine operators
 Miscellaneous and not specified machine operators

Fabricators, assemblers, and hand working occupations
 Welders and cutters
 Solderers and brazers
 Assemblers
 Hand working occupations
 Production inspectors, testers, samplers, and weighers
 Graders and sorters, except agricultural
 Other production inspectors, testers, samplers, and weighers

Transportation and material moving occupations
 Transportation occupations
 Motor vehicle operators
 Truck drivers
 Driver-sales workers
 Other motor vehicle operators
 Rail and water transportation occupations
 Material moving equipment operators
 Supervisors, material moving equipment operators
 Crane, hoist, and winch operators
 Excavating, grading, and dozer machine operators
 Other material moving equipment operators

Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers, n.e.c.
 Helpers, craft and production
 Construction laborers
 Freight, stock, and material handlers
 Garage and service station occupations, and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Persons of Spanish origin may be of any race.

OCCUPATION BY INDUSTRY

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																
Food, bakery, and dairy stores																
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
	Total		White												Black	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		
Employed persons 16 years and over	2 503 595	1 357 919	1 196 790	1 040 528	91 815	64 464	93 464	50 230	28.2	31.0	63.7	66.0	6.4	3.0	8.0	4.7
Managerial and professional specialty occupations	165 896	118 299	108 082	43 651	5 262	2 207	5 598	1 667	35.5	35.4	84.9	78.8	19.6	11.0	10.5	10.2
Executive, administrative, and managerial occupations	158 314	113 864	104 100	40 744	4 995	2 121	5 438	1 483	35.5	35.7	84.6	78.3	18.3	9.7	10.8	10.8
Officials and administrators, public administration	30	30	30	—	—	—	—	—	38.3	37.7	100.0	—	43.3	—	—	—
Financial managers	1 486	1 045	985	403	16	—	10	17	37.2	37.9	98.9	90.9	62.7	18.8	0.3	0.9
Managers, marketing, advertising, and public relations	11 219	8 555	8 130	2 459	183	120	322	70	38.7	37.9	87.4	80.1	23.6	14.0	5.9	10.4
Administrators, education and related fields	46	37	37	4	—	5	—	—	49.6	40.0	64.9	100.0	48.6	44.4	—	55.6
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	6 745	4 583	3 949	2 002	266	88	447	97	35.6	33.9	83.2	79.2	21.6	12.4	11.0	11.0
Managers and administrators, n.e.c.	118 196	86 457	78 686	29 000	4 123	1 568	4 162	984	34.9	36.5	83.7	75.2	15.3	7.6	12.2	12.7
Salaried	102 191	75 494	69 165	24 578	3 490	1 297	3 570	796	33.8	34.7	83.4	75.8	15.6	7.3	—	—
Self-employed	16 005	10 963	9 521	4 422	633	271	592	188	45.4	44.4	72.0	71.8	13.1	9.4	96.3	80.0
Management related occupations	20 592	13 157	12 283	6 876	407	340	497	315	36.6	33.1	88.0	90.1	30.2	15.8	5.5	3.1
Accountants and auditors	6 965	3 483	3 243	1 195	126	184	138	122	33.1	32.4	94.3	93.6	47.2	15.5	17.1	18.1
Personnel, training, and labor relations specialists	3 789	2 381	2 137	1 398	136	173	135	87	34.1	32.8	87.9	87.4	22.6	20.0	4.9	6.0
Buyers and purchasing agents	9 116	6 833	6 472	2 134	127	44	210	100	40.3	34.1	84.8	86.6	22.6	13.7	7.7	3.5
Inspectors and compliance officers	1 135	91	87	30	6	—	6	—	55.5	35.8	87.9	68.2	18.7	—	4.5	—
Other management related occupations	587	369	344	188	12	22	8	6	36.0	33.8	89.2	91.7	61.2	17.9	8.1	0.9
Professional specialty occupations	7 582	4 435	3 982	2 907	267	86	160	184	36.5	32.2	91.6	86.0	52.0	29.5	21	2.3
Engineers, architects, and surveyors	1 666	1 069	1 002	90	36	—	20	7	38.6	31.6	92.5	87.6	50.2	58.8	0.7	—
Architects	246	231	225	8	6	—	9	—	39.3	35.6	96.5	100.0	58.0	—	3.5	—
Engineers	920	838	777	82	30	—	11	—	38.4	31.5	91.4	85.4	48.1	69.5	—	—
Civil engineers	157	151	142	6	3	—	—	—	42.4	30.0	82.1	100.0	51.7	—	—	—
Electrical and electronic engineers	72	72	65	6	—	—	—	—	29.7	—	100.0	—	31.9	—	—	—
Industrial engineers	337	261	228	76	8	—	8	—	38.9	31.7	96.9	84.2	62.8	75.0	—	—
Mechanical engineers	167	167	164	3	—	—	—	—	43.6	—	77.8	—	24.0	—	—	—
Other engineers	187	187	178	9	9	—	—	—	34.5	—	100.0	—	52.4	—	—	—
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer systems analysts and scientists	360	256	213	91	17	6	23	—	37.6	34.6	100.0	90.4	52.7	46.2	2.3	—
Operations and systems researchers and analysts	221	185	178	36	7	—	6	—	33.7	35.0	98.4	100.0	26.5	75.0	—	—
Mathematical scientists	18	13	15	13	8	—	—	—	27.3	55.7	100.0	100.0	30.4	46.2	—	—
Natural scientists	184	115	91	63	18	—	—	—	32.4	30.0	99.1	92.8	59.1	42.0	7.0	—
Chemists, except biochemists	148	118	100	21	10	—	—	—	30.6	25	100.0	100.0	33.3	55.6	—	—
Other natural scientists	139	97	89	42	8	—	16	—	33.1	35.0	99.0	88.1	33.9	33.3	8.2	—
Health diagnosing occupations	55	48	23	7	—	—	—	—	42.5	30.0	79.2	—	58.3	—	54.2	100.0
Health assessment and treating occupations	1 236	839	775	364	42	21	10	12	40.8	32.3	100.0	94.5	88.0	67.0	2.0	—
Registered nurses	65	15	15	50	—	—	—	—	51.8	42.0	100.0	100.0	100.0	24.0	12.0	—
Other health assessment and treating occupations	1 171	824	760	314	42	21	10	12	40.3	31.2	100.0	93.7	87.7	73.2	0.6	—
Teachers, except postsecondary	356	91	265	236	19	—	—	—	33.1	31.3	100.0	99.2	39.6	43.0	7.7	3.4
Social scientists and urban planners	391	279	266	100	13	6	11	5	39.8	34.1	97.8	83.0	56.3	33.0	—	—
Social and recreation workers	102	41	33	51	8	10	—	8	28.5	41.5	73.2	59.0	34.1	24.6	—	8.2
Lawyers and judges	181	175	169	6	—	—	—	—	38.2	30.0	100.0	100.0	93.1	—	—	—
Writers, artists, entertainers, and athletes	3 160	1 231	1 079	1 799	94	43	74	142	32.9	31.9	81.2	82.4	27.5	17.0	3.0	2.2
Other professional specialty occupations	134	83	73	51	5	—	—	—	38.4	41.8	65.1	100.0	41.0	3.9	—	3.9
Technical, sales, and administrative support occupations	1 347 501	498 704	440 006	773 771	30 541	45 764	33 104	36 408	31.1	30.4	72.3	67.5	8.6	2.9	15.1	4.9
Technicians and related support occupations	2 802	1 977	1 814	725	75	61	76	30	30.6	30.9	89.9	93.6	24.9	21.5	2.3	1.1
Health technologists and technicians	60	19	19	41	—	—	—	—	31.8	29.0	100.0	100.0	26.3	29.3	—	—
Licensed practical nurses	48	19	19	12	—	—	—	—	—	50.0	—	—	—	50.0	—	—
Other health technologists and technicians	—	—	—	—	—	—	—	—	—	26.9	100.0	100.0	26.3	20.7	—	—
Engineering and science technicians	1 032	726	629	261	63	37	40	12	29.2	28.7	77.1	92.5	14.3	18.6	1.9	—
Electrical and electronic technicians	169	106	95	37	6	18	5	8	30.8	32.5	82.1	100.0	34.0	9.5	—	—
Industrial and mechanical engineering technicians	176	170	166	6	35	—	35	—	25	30.0	47.1	100.0	5.3	—	—	—
Drafting and surveying technicians	321	243	223	73	16	5	4	4	30.7	27.8	91.4	89.7	10.3	21.8	4.9	—
Other engineering and science technicians	366	207	145	145	37	14	—	—	32.3	27.8	82.6	90.6	16.4	21.4	1.0	—
Technicians, except health, engineering, and science	1 710	1 232	1 166	423	12	24	36	18	31.1	32.1	97.3	93.7	31.2	22.6	2.6	1.9
Airplane pilots and navigators	45	45	45	—	—	—	—	—	56.7	84.4	—	—	4.4	—	—	—
Air traffic controllers and broadcast equipment operators	10	10	10	—	—	—	—	—	30.0	—	100.0	—	—	—	—	—
Computer programmers	1 238	906	849	301	12	14	29	18	30.1	30.9	99.4	95.5	34.9	26.5	—	—
Other technicians, except health, engineering, and science	417	271	262	122	—	10	7	—	33.2	39.2	92.3	89.7	24.4	13.7	11.8	6.2

Persons of Spanish origin may be of any race

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States										Food, bakery, and dairy stores									
	Race										Median age									
	Total					White					Black					Spanish origin ¹				
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Female
Technical, sales, and administrative support occupations—Con.																				
Sales occupations.....	1 148 408	414 549	733 859	367 731	666 802	22 433	40 777	27 350	32 016	29 6	32 1	29 6	32 1	29 6	32 1	29 6	32 1	29 6	32 1	29 6
Supervisors and proprietors, sales occupations.....	307 427	228 960	81 467	204 083	73 376	9 237	3 435	12 487	3 097	37 6	40 7	37 6	40 7	37 6	40 7	37 6	40 7	37 6	40 7	37 6
Sales occupations, except retail.....	25 397	163 880	51 515	150 412	47 796	6 122	2 047	8 452	1 434	33 8	33 8	33 8	33 8	33 8	33 8	33 8	33 8	33 8	33 8	33 8
Self-employed.....	92 035	63 080	28 954	55 481	25 444	3 115	1 588	4 035	1 434	35 2	35 2	35 2	35 2	35 2	35 2	35 2	35 2	35 2	35 2	35 2
Sales representatives, finance and business services.....	625	408	217	385	207	13	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail.....	838 815	187 053	651 762	161 126	591 987	13 362	37 120	14 863	28 894	30 0	30 0	30 0	30 0	30 0	30 0	30 0	30 0	30 0	30 0	30 0
Sales workers, retail and personal services.....	728 678	156 902	571 776	134 228	516 187	11 872	35 413	12 759	26 011	25	25	25	25	25	25	25	25	25	25	25
Cashiers.....	110 137	30 151	79 986	26 898	75 800	1 490	1 707	2 104	2 883	30 8	30 8	30 8	30 8	30 8	30 8	30 8	30 8	30 8	30 8	30 8
Other sales occupations, retail and personal services.....	1 531	142	1 389	121	1 364	21	22	—	—	37 0	37 0	37 0	37 0	37 0	37 0	37 0	37 0	37 0	37 0	37 0
Administrative support occupations, including clerical.....	196 291	82 158	114 133	70 461	106 244	7 833	4 926	5 678	4 362	25 4	25 4	25 4	25 4	25 4	25 4	25 4	25 4	25 4	25 4	25 4
Supervisors, administrative support occupations.....	16 264	8 490	7 774	7 634	7 291	515	271	528	271	31 5	31 5	31 5	31 5	31 5	31 5	31 5	31 5	31 5	31 5	31 5
Computer equipment operators.....	3 013	1 350	1 663	1 217	1 516	89	114	63	42	28 9	28 9	28 9	28 9	28 9	28 9	28 9	28 9	28 9	28 9	28 9
Secretaries, stenographers, and typists.....	16 211	448	15 763	350	14 802	22	606	74	481	33 2	33 2	33 2	33 2	33 2	33 2	33 2	33 2	33 2	33 2	33 2
Stenographers and typists.....	14 652	344	14 308	266	13 610	14	448	62	407	33 7	33 7	33 7	33 7	33 7	33 7	33 7	33 7	33 7	33 7	33 7
Receptionists.....	1 559	104	1 455	84	1 192	3	158	12	74	25	25	25	25	25	25	25	25	25	25	25
Other information clerks.....	1 277	69	1 208	66	1 083	3	6	2	71	25	25	25	25	25	25	25	25	25	25	25
File clerks.....	502	148	354	143	333	8	72	15	39	43 6	43 6	43 6	43 6	43 6	43 6	43 6	43 6	43 6	43 6	43 6
Other records processing occupations, except financial.....	777	108	669	100	579	8	—	—	26	26 7	26 7	26 7	26 7	26 7	26 7	26 7	26 7	26 7	26 7	26 7
Bookkeepers, accounting, and auditing clerks.....	12 743	6 994	5 749	6 040	5 360	483	244	752	242	28 4	28 4	28 4	28 4	28 4	28 4	28 4	28 4	28 4	28 4	28 4
Payroll and timekeeping clerks.....	44 671	3 077	41 594	2 700	39 515	221	1 121	165	1 504	37 0	37 0	37 0	37 0	37 0	37 0	37 0	37 0	37 0	37 0	37 0
Other financial records processing occupations.....	1 811	62	1 749	62	1 632	8	59	8	33	34 2	34 2	34 2	34 2	34 2	34 2	34 2	34 2	34 2	34 2	34 2
Telephone operators.....	3 823	1 457	2 366	1 290	2 043	49	197	162	111	25	25	25	25	25	25	25	25	25	25	25
Mail and message distributing occupations.....	511	6	505	—	476	—	—	6	22	43 3	43 3	43 3	43 3	43 3	43 3	43 3	43 3	43 3	43 3	43 3
Production coordinators and expeditors.....	1 699	1 122	577	834	520	178	57	112	15	25	25	25	25	25	25	25	25	25	25	25
Traffic, shipping, and receiving clerks.....	8 480	4 101	4 379	3 588	3 931	330	352	306	116	27 3	27 3	27 3	27 3	27 3	27 3	27 3	27 3	27 3	27 3	27 3
Stock and inventory clerks.....	9 386	8 210	1 176	7 071	1 078	859	73	620	93	35 6	35 6	35 6	35 6	35 6	35 6	35 6	35 6	35 6	35 6	35 6
Other material recording, scheduling, and distributing clerks.....	40 420	34 763	5 657	29 182	5 040	4 128	356	2 104	357	25	25	25	25	25	25	25	25	25	25	25
Adjusters and investigators.....	3 076	1 622	1 454	1 322	1 332	73	83	27	27	29 8	29 8	29 8	29 8	29 8	29 8	29 8	29 8	29 8	29 8	29 8
Data-entry keyers.....	1 711	907	804	791	750	10	319	16	220	25 4	25 4	25 4	25 4	25 4	25 4	25 4	25 4	25 4	25 4	25 4
Other administrative support occupations.....	2 956	150	2 806	129	2 372	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Service occupations.....	26 960	9 074	17 886	7 942	16 591	644	851	590	644	25	25	25	25	25	25	25	25	25	25	25
Private household occupations.....	100 008	45 844	54 164	36 065	47 130	6 512	4 797	4 787	2 413	25	25	25	25	25	25	25	25	25	25	25
Protective service occupations.....	4 328	3 764	564	2 604	466	904	65	294	42	37 6	37 6	37 6	37 6	37 6	37 6	37 6	37 6	37 6	37 6	37 6
Guards.....	4 058	3 502	556	2 371	458	875	65	284	42	37 1	37 1	37 1	37 1	37 1	37 1	37 1	37 1	37 1	37 1	37 1
Other protective service occupations.....	270	262	8	233	8	29	—	10	—	40 1	40 1	40 1	40 1	40 1	40 1	40 1	40 1	40 1	40 1	40 1
Service occupations, except protective and household.....	95 680	42 080	53 600	33 461	46 664	5 608	4 732	4 493	2 371	25	25	25	25	25	25	25	25	25	25	25
Food preparation and service occupations.....	64 120	15 889	48 231	13 160	42 563	1 594	3 871	1 382	1 909	25	25	25	25	25	25	25	25	25	25	25
Health service occupations.....	338	128	210	123	168	1	42	18	—	31 3	31 3	31 3	31 3	31 3	31 3	31 3	31 3	31 3	31 3	31 3
Cleaning and building service occupations, except household.....	29 453	25 865	3 588	20 054	2 524	3 970	737	3 060	397	25	25	25	25	25	25	25	25	25	25	25
Personal service occupations.....	1 769	198	1 571	124	1 409	44	82	33	65	—	—	—	—	—	—	—	—	—	—	—
Farming, forestry, and fishing occupations.....	902	657	245	476	216	165	25	31	—	34 1	34 1	34 1	34 1	34 1	34 1	34 1	34 1	34 1	34 1	34 1
Precision production, craft, and repair occupations.....	264 595	222 259	42 336	200 300	38 407	11 431	2 212	16 161	1 917	37 3	37 3	37 3	37 3	37 3	37 3	37 3	37 3	37 3	37 3	37 3
Mechanics and repairers.....	8 425	8 115	310	7 347	295	25	15	305	8	48 1	48 1	48 1	48 1	48 1	48 1	48 1	48 1	48 1	48 1	48 1
Supervisors, mechanics and repairers.....	1 638	552	1 086	523	82	25	—	—	—	36 9	36 9	36 9	36 9	36 9	36 9	36 9	36 9	36 9	36 9	36 9
Industrial machinery repairers.....	1 838	1 824	14	1 562	14	140	—	174	—	36 9	36 9	36 9	36 9	36 9	36 9	36 9	36 9	36 9	36 9	36 9
Electronic repairers, communications and industrial.....	1 410	1 389	21	1 257	13	72	8	93	—	39 7	39 7	39 7	39 7	39 7	39 7	39 7	39 7	39 7	39 7	39 7
Refrigerating, air conditioning, and refrigeration mechanics.....	52	44	8	44	8	—	—	—	—	47 3	47 3	47 3	47 3	47 3	47 3	47 3	47 3	47 3	47 3	47 3
Other mechanics and repairers.....	1 422	1 417	5	1 314	5	64	—	36	—	38 8	38 8	38 8	38 8	38 8	38 8	38 8	38 8	38 8	38 8	38 8
Construction trades.....	3 069	2 889	180	2 647	173	185	7	202	8	34 7	34 7	34 7	34 7	34 7	34 7	34 7	34 7	34 7	34 7	34 7
Supervisors, construction occupations.....	3 258	3 192	66	2 945	60	185	6	79	—	41 5	41 5	41 5	41 5	41 5	41 5	41 5	41 5	41 5	41 5	41 5
Carpenters.....	503	499	4	473	4	20	—	37	—	41 4	41 4	41 4	41 4	41 4	41 4	41 4	41 4	41 4	41 4	41 4
Electricians.....	1 373	1 421	16	1 313	16	64	—	37	—	45 5	45 5	45 5	45 5	45 5	45 5	45 5	45 5	45 5	45 5	45 5
Painters, construction and maintenance.....	549	549	—	526	—	16	—	8	—	35 5	35 5	35 5	35 5	35 5	35 5	35 5	35 5	35 5	35 5	35 5
Plumbers, pipefitters, and steamfitters.....	360	352	8	300	8	52	—	22	—	37 9	37 9	37 9	37 9	37 9	37 9	37 9	37 9	37 9	37 9	37 9
Other construction trades.....	223	205	18	192	18	8	—	—	—	34 9	34 9	34 9	34 9	34 9	34 9	34 9	34 9	34 9	34 9	34 9
Persons of Spanish origin may be of any race.	186	166	20	141	14	25	6	5	—	38 3	38 3	38 3	38 3	38 3	38 3	38 3	38 3	38 3	38 3	38 3

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Food, bakery, and dairy stores									
	Race																			
	Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed					
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Precision production, craft, and repair occupations—Con																				
Extraneous occupations	48	37	20	5	17	6	15 577	1 909	25—	34.2	45.9	54.5	—	—	—	—	—	—	—	—
Precision production occupations	252 864	210 915	189 988	38 247	10 943	2 185	1 539	224	37.2	34.5	67.1	65.2	3.2	3.1	6.9	8.1	—	—	—	—
Supervisors, production occupations	27 932	22 398	20 172	5 534	1 232	341	52	—	37.2	38.3	80.0	75.5	10.6	7.0	5.2	8.7	—	—	—	—
Precision metalworking occupations	591	508	414	86	71	18	—	—	35.3	35.3	72.4	13.1	2.6	—	—	—	—	—	—	—
Tool and die makers	35	23	23	12	12	12	—	—	29.6	40.0	73.9	—	—	—	—	—	—	—	—	—
Machinists	385	339	264	40	57	6	32	—	38.4	25—	75.8	23.9	—	—	—	—	—	—	—	—
Sheet metal workers	23	23	23	—	—	—	—	—	26.8	—	100.0	—	—	—	—	—	—	—	—	—
Other precision metal workers	148	122	104	26	14	—	20	—	33.4	55.0	57.4	—	26.1	—	—	—	—	—	—	—
Precision textile, apparel, and furnishings machine workers	280	213	184	43	29	4	7	—	45.5	34.7	69.0	28.4	6.1	—	—	—	—	—	—	—
Precision food production occupations	223 078	186 884	168 371	33 043	9 581	1 822	13 943	1 685	37.3	33.9	65.6	63.8	2.4	2.5	7.1	8.0	—	—	—	—
Precision inspectors, testers, and related workers	52	50	44	2	30	—	6	—	40.0	50.0	32.0	100.0	10.0	—	—	—	—	—	—	—
Plant and system operators	679	646	605	33	30	—	23	—	40.9	32.7	68.9	78.8	2.8	—	—	—	—	—	—	—
Other precision production occupations	252	217	198	35	—	—	7	—	38.9	32.3	77.0	80.0	4.6	5.7	15.7	—	—	—	—	—
Operators, fabricators, and laborers	624 693	472 156	411 861	137 153	37 704	9 459	33 783	7 825	25—	32.4	49.6	59.8	2.5	1.5	1.0	1.9	—	—	—	—
Machine operators, assemblers, and inspectors	18 334	10 781	8 714	6 381	1 419	859	1 011	326	30.9	34.9	56.0	52.7	3.7	1.9	4.0	2.2	—	—	—	—
Machine operators and tenders, except precision	9 790	6 122	4 836	2 896	885	582	684	210	33.0	36.3	56.4	54.7	3.4	1.0	3.3	2.4	—	—	—	—
Metalworking and plastic working machine operators	104	70	63	34	—	—	14	—	36.4	29.0	32.9	94.1	5.7	—	20.0	—	—	—	—	—
Fabricating machine operators, n.e.c.	8	—	8	—	—	—	—	—	—	—	—	100.0	—	—	—	—	—	—	—	—
Metal and plastic processing and woodworking machine operators	85	58	42	12	16	15	—	—	35.7	27.9	48.3	63.0	17.2	14.8	—	—	—	—	—	—
Printing machine operators	900	583	317	303	19	9	63	14	28.3	26.3	83.3	83.0	—	—	—	—	—	—	—	—
Textile machine operators	40	16	16	16	—	8	—	—	25—	26.8	31.3	70.8	—	—	—	—	—	—	—	—
Textile sewing machine operators	19	12	7	12	—	—	—	—	25—	50.0	—	100.0	—	—	—	—	—	—	—	—
Laundry and dry cleaning machine operators	37	16	16	4	—	8	—	9	30.0	38.0	100.0	57.1	—	14.3	—	—	—	—	—	—
Packaging and filling machine operators	593	334	259	243	40	52	57	16	28.6	34.2	44.0	46.7	1.8	—	0.6	—	—	—	—	—
Furnace, kiln, and oven operators, except food	216	202	176	14	13	13	22	—	31.2	28.3	57.9	21.4	3.0	—	—	—	—	—	—	—
Other specified machine operators	2 510	1 758	1 351	623	317	106	110	51	33.4	41.9	55.5	47.6	2.5	0.9	4.4	4.2	—	—	—	—
Miscellaneous and not specified machine operators	5 278	3 078	2 385	1 687	480	384	418	120	34.6	37.9	54.2	52.8	4.4	1.0	3.5	2.2	—	—	—	—
Fabricators, assemblers, and hand working occupations	5 810	3 408	2 796	2 195	414	144	269	83	27.9	31.9	54.3	50.6	2.1	2.5	5.9	2.8	—	—	—	—
Welders and cutters	693	657	536	27	82	9	53	—	31.2	35.0	65.0	50.0	3.7	—	6.2	—	—	—	—	—
Solders and brazers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Assemblers	1 209	741	558	413	130	31	95	29	30.7	35.3	55.5	43.6	1.8	—	3.5	1.1	—	—	—	—
Hand working occupations	3 908	2 010	1 898	1 702	202	104	121	54	25—	31.2	50.4	52.3	1.6	2.0	3.3	3.3	—	—	—	—
Production inspectors, testers, samplers, and weighers	2 734	1 251	1 082	1 290	120	133	58	33	28.4	37.2	58.8	51.2	10.1	3.2	2.7	0.9	—	—	—	—
Graders and sorters, except agricultural	1 890	636	568	1 077	65	118	15	33	25—	36.5	45.6	49.1	2.4	2.5	2.2	1.1	—	—	—	—
Other production inspectors, testers, samplers, and weighers	844	615	514	213	55	15	43	—	33.0	41.3	72.5	62.4	18.0	7.4	3.3	—	—	—	—	—
Transportation and material moving occupations	52 380	50 720	42 510	1 660	6 228	217	3 829	58	36.3	32.7	61.6	67.8	2.6	1.4	3.4	4.5	—	—	—	—
Transportation occupations	44 610	43 169	36 785	1 441	4 745	183	3 559	50	36.2	32.9	61.4	69.3	2.5	1.6	4.0	5.2	—	—	—	—
Motor vehicle operators	44 566	43 140	36 756	1 213	4 745	183	3 559	50	36.2	32.9	61.4	69.3	2.5	1.6	4.0	5.2	—	—	—	—
Truck drivers	34 473	33 581	27 906	770	4 250	116	2 735	27	36.5	33.0	61.4	68.9	2.1	1.6	4.0	5.3	—	—	—	—
Other motor vehicle operators	8 201	454	7 689	373	454	67	290	23	34.3	32.2	57.7	69.2	2.1	2.0	2.9	4.3	—	—	—	—
Rail and water transportation occupations	1 438	1 358	1 161	70	130	—	120	—	39.4	32.7	64.1	82.5	3.4	1.1	8.5	8.1	—	—	—	—
Other motor vehicle operators	44	29	15	15	—	—	—	—	25—	33.0	55.2	100.0	—	—	—	—	—	—	—	—
Material moving equipment operators	7 770	7 551	5 725	172	1 483	34	670	8	37.1	31.4	62.8	58.0	2.8	—	0.2	—	—	—	—	—
Supervisors, material moving equipment operators	122	122	122	—	—	—	—	—	39.5	—	89.3	—	—	—	—	—	—	—	—	—
One-man and winch operators	49	49	49	—	—	—	4	—	31.4	—	51.0	—	—	—	—	—	—	—	—	—
Excavating, grading, and dozer machine operators	94	54	36	40	18	—	6	—	25—	31.4	33.4	50.0	—	—	—	—	—	—	—	—
Other material moving equipment operators	7 505	7 326	5 518	132	1 465	34	660	8	37.1	33.4	62.6	59.8	2.5	—	0.2	—	—	—	—	—
Hand laborers, equipment cleaners, helpers, and laborers	553 979	410 655	360 637	129 372	30 057	8 383	28 943	7 441	25—	32.2	47.9	60.1	2.5	1.5	0.7	1.9	—	—	—	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	45	26	24	19	2	—	—	—	39.2	33.6	76.9	89.5	—	—	—	—	—	—	—	—
Helpers, craft and production	6 705	3 753	2 952	3 069	382	137	412	75	25—	34.9	40.2	56.9	1.3	1.8	0.6	2.7	—	—	—	—
Construction laborers, except helpers	303	296	248	7	32	—	58	—	31.1	25—	54.1	28.6	7.1	—	0.6	—	—	—	—	—
Freight, stock, and material handlers	458 649	371 625	329 785	78 747	24 669	4 569	24 665	4 560	25—	27.5	47.2	61.3	2.4	1.6	0.6	2.6	—	—	—	—
Garage and service station occupations, and equipment cleaners	5 059	4 225	3 642	739	376	72	277	88	25—	27.5	44.3	66.1	1.7	1.1	1.5	5.5	—	—	—	—
Hand packers and packagers	56 853	48 199	44 149	6 922	997	2 635	1 199	2 558	25—	38.1	40.4	56.0	1.7	1.1	1.2	0.4	—	—	—	—
Laborers, except construction	26 365	22 076	16 947	3 007	3 581	970	2 332	360	29.9	37.1	63.7	47.9	3.3	2.1	1.1	1.7	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Automotive dealers and gasoline stations																
United States																
Both sexes	Total		Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
			White		Black											
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1 907 506	1 581 366	326 140	1 452 753	307 916	80 141	10 637	73 561	10 613	32.8	33.4	67.5	79.6	6.8	4.5	10.0	4.7
Employed persons 16 years and over																
174 629	146 786	27 843	141 462	26 912	2 626	401	4 071	609	39.6	38.4	86.5	90.3	21.9	11.3	8.9	3.9
170 429	143 459	26 970	138 353	26 126	2 522	365	3 933	588	39.6	38.6	86.4	90.1	21.4	10.5	8.9	3.9
7 290	5 495	1 795	5 303	1 728	58	33	228	57	35.7	38.8	46.6	93.3	34.4	10.0	0.1	—
39 177	37 764	1 413	36 633	1 391	544	5	946	19	38.7	34.7	89.1	89.8	20.7	11.5	4.6	7.0
153	149	4	134	4	7	—	5	—	45.6	45.0	96.0	100.0	25.5	—	10.7	—
4 573	3 946	627	3 715	572	116	22	193	27	38.8	33.8	80.5	84.5	17.4	18.2	10.5	8.6
104 041	85 578	18 463	82 407	18 100	1 545	142	2 192	331	40.4	39.8	84.6	88.8	19.4	8.4	11.2	4.3
93 128	75 791	17 337	75 238	16 976	1 348	130	1 873	308	39.7	39.4	85.9	89.3	20.5	8.2	—	—
10 933	9 787	1 146	9 369	1 124	197	12	319	23	45.9	44.9	74.8	81.6	10.8	11.6	98.0	68.8
15 162	10 514	4 648	9 946	4 331	252	163	369	154	39.5	34.5	88.3	94.9	34.7	17.7	10.0	2.4
8 309	4 801	3 508	4 459	3 274	128	119	152	96	40.1	34.8	98.1	96.2	55.0	20.1	23.3	2.2
1 892	1 563	329	1 476	284	55	34	40	5	37.4	35.0	84.4	94.5	15.5	12.5	8.1	4.0
3 760	3 156	604	3 112	583	20	—	90	32	41.0	32.9	77.2	89.2	16.7	7.8	24.8	3.5
165	160	5	111	5	8	—	64	5	30.7	30.0	64.4	100.0	4.4	—	—	—
1 036	834	202	788	185	41	10	23	16	37.4	33.7	86.3	88.6	27.8	15.8	4.6	—
Professional specialty occupations																
4 200	3 327	873	3 109	786	104	36	138	21	37.1	33.0	91.0	95.3	42.6	36.8	5.7	3.6
875	32	843	32	815	16	—	14	—	35.7	33.7	91.3	100.0	45.1	12.5	2.5	—
81	69	12	64	12	—	—	14	—	44.7	50.0	82.6	100.0	27.5	—	23.2	—
767	747	20	724	20	16	—	—	—	34.7	30.0	92.9	100.0	48.3	20.0	0.7	—
68	64	4	64	4	—	—	—	—	33.0	30.0	100.0	100.0	53.1	—	—	—
80	80	—	80	—	—	—	—	—	31.4	—	100.0	—	50.0	—	—	—
162	156	6	147	6	9	—	—	—	37.1	30.0	87.8	100.0	19.9	—	—	—
92	92	—	85	—	7	—	—	—	34.2	—	84.8	—	39.1	—	—	—
365	355	10	348	10	—	—	—	—	35.4	30.0	94.4	100.0	62.0	40.0	1.4	—
27	27	—	27	—	—	—	—	—	40.0	—	70.4	—	—	—	—	—
303	228	75	192	59	31	10	10	—	37.8	29.6	100.0	100.0	54.8	42.7	—	—
157	130	27	130	27	—	—	—	—	36.8	39.3	96.9	100.0	33.1	51.9	—	—
43	22	21	22	21	—	—	—	—	60.0	58.0	100.0	57.1	36.4	—	—	—
202	155	47	155	23	—	—	7	—	31.8	27.3	96.8	78.7	74.8	72.3	—	—
36	31	5	31	—	—	—	—	—	30.0	30.0	100.0	100.0	100.0	100.0	—	—
166	124	42	124	23	—	—	7	—	32.6	26.6	96.0	76.2	68.5	69.0	—	—
140	108	32	100	12	—	20	—	—	46.9	50.5	100.0	100.0	100.0	37.5	49.1	21.9
139	42	97	35	91	—	6	7	7	49.3	43.5	78.6	100.0	52.4	23.7	19.0	5.2
90	—	90	—	84	—	6	—	—	—	42.7	—	100.0	—	25.6	—	—
49	42	7	35	7	—	—	7	—	49.3	60.0	78.6	100.0	52.4	—	19.0	71.4
366	329	37	320	37	—	—	37	—	31.1	31.9	95.1	94.6	35.0	56.8	1.2	—
407	338	69	332	61	—	—	—	—	41.4	30.4	99.4	94.2	61.2	55.1	4.4	—
49	45	4	45	4	—	—	—	—	29.1	25	100.0	100.0	—	—	—	—
142	106	36	106	36	—	—	—	—	37.2	32.5	100.0	100.0	100.0	86.1	—	—
1 177	815	362	712	349	43	—	56	14	42.2	33.5	81.2	97.0	18.2	27.3	10.3	5.2
200	166	34	145	34	14	—	7	—	38.0	35.8	77.1	85.3	23.5	38.2	3.6	—
Other professional specialty occupations																
846 399	590 856	255 543	557 587	243 251	18 361	6 588	23 831	8 259	37.1	33.5	77.2	81.8	9.8	4.2	18.3	4.8
8 265	3 076	5 189	2 730	5 003	268	63	128	153	33.1	31.9	82.0	89.8	19.8	5.0	2.5	0.9
23	13	10	13	10	—	—	—	—	50.5	27.7	35.9	100.0	35.9	—	—	—
105	39	66	39	60	—	—	—	—	55.7	25	46.2	100.0	46.2	—	—	—
82	26	56	26	50	—	—	—	—	50.0	30.0	30.8	100.0	30.8	—	—	—
Engineering and science technicians																
1 113	987	126	842	111	113	6	63	—	32.6	32.9	79.6	81.7	15.3	15.9	1.0	2.4
386	341	45	306	45	31	—	17	—	32.6	30.7	86.2	88.9	9.4	—	1.5	—
80	80	—	80	—	—	—	—	—	35.0	—	88.8	—	22.5	—	—	—
346	291	55	196	46	74	—	46	—	31.2	31.5	73.5	78.2	12.4	30.9	1.7	—
301	275	26	260	20	8	6	—	—	31.7	40.0	75.3	76.9	23.6	11.5	—	11.5
Other engineering and science technicians																
7 047	2 050	4 997	1 849	4 832	155	57	65	153	33.1	31.9	84.0	89.9	21.7	4.7	3.3	0.9
324	318	6	311	6	7	—	—	—	34.8	40.0	98.4	100.0	43.1	100.0	2.2	—
51	38	13	38	13	—	—	11	—	25	53.8	60.5	53.8	31.6	—	—	—
710	430	280	383	227	41	20	—	9	31.9	30.4	95.8	91.1	35.6	28.6	1.2	2.9
5 962	1 264	4 698	1 117	4 586	107	37	43	144	33.4	32.0	77.1	89.9	11.2	3.2	4.4	0.8

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Employed persons 16 years and over—Con

Technical, sales, and administrative support occupations—Con.

Sales occupations—

Supervisors and proprietors, sales occupations—

Salaries—

Self-employed—

Sales representatives, finance and business services—

Sales representatives, commodities, except retail—

Sales workers, retail and personal services—

Clerks—

Other sales occupations, retail and personal services—

Sales related occupations—

Administrative support occupations, including clerical—

Supervisors, administrative support occupations—

Computer equipment operators—

Secretaries, stenographers, and typists—

Stenographers and typists—

Receptionists—

Other information clerks—

File clerks—

Other records processing occupations, except financial—

Bookkeepers, accounting, and auditing clerks—

Payroll and timekeeping clerks—

Other financial records processing occupations—

Telephone operators—

Mail and message distributing occupations—

Production coordinators and expeditors—

Traffic, shipping, and receiving clerks—

Stock and inventory clerks—

Other material recording, scheduling, and distributing clerks—

Adjusters and investigators—

Data-entry keyers—

Other administrative support occupations—

Service occupations—

Private household occupations—

Protective service occupations—

Guards—

Other protective service occupations—

Service occupations, except protective and household—

Food preparation and service occupation—

Health service occupations—

Cleaning and building service occupations, except household—

Personal service occupations—

Farming, forestry, and fishing occupations—

Precision production, craft, and repair occupations—

Mechanics and repairers—

Supervisors, mechanics and repairers—

Automobile mechanics, including body—

Industrial machinery repairers—

Electronic repairers, communications and industrial equipment—

Heating, air conditioning, and refrigeration mechanics—

Other mechanics and repairers—

Construction trades—

Supervisors, construction occupations—

Carpenters—

Electricians—

Painters, construction and maintenance—

Plumbers, pipefitters, and steamfitters—

Other construction trades—

Persons of Spanish origin may be of any race.

Persons of Spanish origin may be of any race.

Persons of Spanish origin may be of any race.

Persons of Spanish origin may be of any race.

Persons of Spanish origin may be of any race.

Persons of Spanish origin may be of any race.

Persons of Spanish origin may be of any race.

Automotive dealers and gasoline stations																
Total			Race		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
Both sexes	Male	Female	White		Black		Male	Female	Male	Female	Male	Female	Male	Female		
629 332	552 514	76 818	522 434	71 600	16 292	3 155	21 946	3 040	37 4	31 2	77 2	71 8	9 6	4 3		
120 387	194 105	16 282	184 274	15 362	5 304	543	6 385	528	41 1	38 9	73 5	71 0	10 2	5 4		
127 367	116 508	10 859	110 281	10 285	3 378	375	4 176	342	37 2	34 3	77 7	73 3	12 0	5 8		
83 020	77 597	5 423	73 993	5 077	1 926	168	2 209	186	46 3	47 3	67 3	66 3	7 3	4 7		
954	689	265	669	254	—	5	6	8	45 0	37 0	83 3	93 6	25 1	17 7		
181	173	8	168	8	—	—	—	—	42 8	25 1	86 1	—	28 9	—		
417 541	357 320	60 221	337 110	55 934	10 974	2 607	15 555	2 504	34 9	29 2	79 2	71 9	9 3	3 9		
49 473	13 911	35 562	12 263	32 598	810	1 857	1 578	1 578	25 1	26 6	60 0	67 2	3 3	1 9		
368 068	343 409	24 659	324 847	23 336	10 164	750	14 680	926	35 4	32 0	79 9	80 2	9 5	6 8		
269	227	42	213	42	14	—	—	—	38 2	45 0	71 4	81 0	13 7	31 0		
208 802	35 266	173 536	32 423	166 648	1 801	3 370	1 757	5 066	32 9	34 5	77 3	86 0	11 2	4 2		
5 665	2 710	2 955	2 524	126	126	50	107	67	38 2	39 7	88 1	90 3	25 7	7 3		
4 733	898	3 835	766	3 068	86	101	50	123	30 6	29 6	93 5	87 6	18 4	2 5		
42 853	685	42 168	641	40 287	31	1 032	31	1 374	47 3	46 1	87 2	88 1	19 4	3 9		
39 365	593	38 772	549	37 176	31	881	31	1 241	46 1	45 1	87 2	88 1	22 4	3 9		
3 488	92	3 396	92	3 111	151	151	—	133	65 1	29 1	69 1	85 4	—	3 9		
4 696	162	4 534	152	4 384	10	72	—	165	29 8	25 7	52 1	82 5	3 1	4 5		
1 186	289	897	267	836	22	39	19	836	33 6	37 2	70 2	82 5	11 1	2 8		
2 502	135	2 367	122	2 201	13	108	8	116	25 5	25 1	52 6	63 2	3 7	1 8		
3 895	2 201	1 694	1 534	1 534	125	100	216	108	28 5	29 7	69 2	79 2	3 8	4 5		
82 151	5 288	76 863	5 124	74 839	67	783	133	1 765	44 5	38 4	87 3	87 6	18 8	4 6		
1 613	89	1 524	83	1 480	11	13	6	72	44 6	37 2	93 3	91 1	33 7	3 9		
3 237	376	2 861	354	2 507	11	51	19	105	36 5	31 2	87 2	89 1	14 6	3 8		
3 030	58	2 972	52	2 920	6	54	9	131	25 1	27 0	43 1	68 0	—	—		
2 170	1 573	597	1 324	559	149	80	73	23	26 0	25 1	56 3	77 2	2 4	1 5		
2 412	1 545	867	1 436	766	80	79	76	29	34 4	33 3	72 9	86 0	5 7	7 5		
3 452	2 947	505	2 597	417	253	37	232	38	29 3	28 5	72 7	86 0	3 5	0 6		
9 110	5 692	3 418	5 031	3 212	81	81	294	124	25 7	31 2	70 7	79 0	5 3	2 8		
2 920	2 324	606	2 324	559	61	25	88	16	33 8	29 4	79 6	81 2	4 3	4 5		
3 757	2 119	1 638	1 968	1 493	97	104	88	16	33 8	32 0	83 5	88 0	20 0	10 4		
3 360	850	2 510	1 968	1 493	30	176	85	90	33 7	32 0	69 4	88 0	12 1	4 0		
26 050	5 325	20 725	4 973	19 806	166	445	288	568	33 0	34 6	77 4	82 7	11 1	4 0		
23 912	18 637	5 275	13 921	3 949	3 952	1 168	1 422	240	33 6	37 7	37 2	46 3	1 6	1 8		
1 521	1 460	61	1 159	43	217	12	180	—	55 6	34 4	50 1	88 5	2 7	—		
1 450	1 389	61	1 092	43	217	12	154	—	56 6	34 4	48 5	88 5	2 4	—		
71	71	—	67	—	—	—	26	—	34 2	31 9	80 3	—	7 0	—		
22 397	17 177	5 214	12 762	3 906	3 735	1 156	1 242	240	34 2	37 7	30 1	45 8	1 5	1 8		
3 327	898	2 429	719	2 002	156	403	43	61	25 1	33 8	55 7	46 0	3 7	1 6		
94	15	79	15	79	—	—	—	—	25 1	34 0	46 7	92 4	—	—		
18 561	16 100	2 461	11 871	1 79	3 572	731	1 199	179	25 1	33 1	34 7	41 9	1 4	2 3		
409	164	245	115	208	7	22	—	—	25 1	33 6	64 6	67 8	—	—		
556	508	48	366	48	69	—	94	—	27 3	25 1	45 5	45 8	8 7	10 4		
471 814	465 420	6 394	427 652	5 756	22 297	498	22 450	184	31 9	32 1	66 9	74 5	2 4	3 5		
436 234	432 461	3 773	397 255	3 261	20 797	401	20 806	121	31 6	29 5	66 6	70 9	2 0	2 7		
34 783	34 215	568	33 456	538	369	30	369	77	38 6	31 8	78 1	85 0	5 1	2 1		
366 937	364 117	2 820	332 454	2 385	18 568	331	18 677	114	31 2	28 6	65 5	68 8	1 7	2 6		
3 083	3 060	23	2 731	23	269	—	93	—	33 0	32 0	61 5	65 2	3 3	—		
906	906	—	854	—	47	—	46	—	31 1	—	78 9	—	2 0	—		
689	669	20	640	—	17	—	12	—	38 6	40 0	66 5	—	2 2	—		
29 836	29 494	342	27 120	315	1 527	20	1 400	—	28 5	29 9	66 1	69 3	1 9	5 0		
4 058	3 910	148	3 528	140	251	8	322	6	33 4	32 9	60 9	71 6	2 4	10 1		
459	430	29	371	29	55	—	4	6	41 3	33 3	67 7	75 9	8 1	31 0		
1 110	1 072	38	1 000	38	58	—	65	—	34 7	31 0	59 1	52 6	2 3	15 8		
366	551	15	525	15	7	—	11	—	35 4	25 1	75 1	100 0	0 9	—		
1 237	1 208	29	1 041	21	98	8	205	—	28 7	30 0	57 6	100 0	0 3	—		
353	334	19	294	19	33	—	14	—	41 2	37 1	53 6	63 2	1 8	—		
333	315	18	297	18	—	—	23	—	32 2	45 0	53 7	44 4	6 0	—		

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Automotive dealers and gasoline stations																			
United States																			
Race																			
Total				White		Black		Spanish origin ¹				Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
Both sexes	Male	Female		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.																			
Precision production, craft, and repair occupations—Con.																			
Extraction occupations																			
Precision production occupations																			
Supervisors, production occupations																			
Precision metalworking occupations																			
Tool and die makers																			
Machinists																			
Sheet metal workers																			
Other precision metal workers																			
Precision textile, apparel, and furnishings machine workers																			
Precision food production occupations																			
Precision inspectors, testers, and related workers																			
Plant and system operators																			
Other precision production occupations																			
Operators, fabricators, and laborers																			
Machine operators, assemblers, and inspectors																			
Machine operators and tenders, except precision																			
Metalworking and plastic working machine operators																			
Fabricating machine operators, n.e.c.																			
Metal and plastic processing and woodworking machine operators																			
Printing machine operators																			
Textile machine operators																			
Textile sewing machine operators																			
Laundry and dry cleaning machine operators																			
Packaging and filling machine operators																			
Furnace, kiln, and oven operators, except food																			
Other specified machine operators																			
Miscellaneous and not specified machine operators																			
Fabricators, assemblers, and hand working occupations																			
Welders and cutters																			
Solders and brazers																			
Assemblers																			
Hand working occupations																			
Production inspectors, testers, samplers, and weighers																			
Graders and sorters, except agricultural																			
Other production inspectors, testers, samplers, and weighers																			
Transportation and material moving occupations																			
Transportation occupations																			
Motor vehicle operators																			
Truck drivers																			
Driver-sales workers																			
Other motor vehicle operators																			
Rail and water transportation occupations																			
Material moving equipment operators																			
Supervisors, material moving equipment operators																			
Crane, hoist and winch operators																			
Excavating, grading, and dozer machine operators																			
Other material moving equipment operators																			
Handlers, equipment cleaners, helpers, and laborers																			
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.																			
Helpers, craft and production																			
Construction laborers																			
Freight, stock, and material handlers																			
Garage and service station occupations, and equipment cleaners																			
Hand packers and packagers																			
Laborers, except construction																			

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																			
Apparel and accessory stores																			
Race						Spanish origin ¹				Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
Total		White		Black		Male		Female		Male		Female		Male		Female		Male	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
895 516	270 590	624 926	236 116	563 550	21 597	39 067	19 761	32 161	32.3	34.0	76.3	71.9	17.1	7.3	9.6	5.3			
Employed persons 16 years and over																			
Managerial and professional specialty occupations	107 251	49 262	57 989	54 048	2 025	2 273	2 335	1 910	36.0	33.4	91.9	88.9	31.7	19.2	7.9	7.9			
Executive, administrative, and managerial occupations	98 727	46 064	52 663	42 477	1 803	1 907	2 105	1 712	35.8	33.7	92.3	89.0	31.9	18.8	7.8	8.0			
Officials and administrators, public administration	4	4	4	4	—	—	—	—	30.0	—	100.0	—	—	—	—	—			
Financial managers	2 641	1 221	1 420	1 318	27	89	38	52	38.9	42.1	96.1	87.4	63.0	6.2	1.1	—			
Managers, marketing, advertising, and public relations	19 601	9 276	10 325	9 710	531	322	484	326	33.3	33.7	93.3	88.7	24.1	15.7	6.1	6.9			
Administrators, education and related fields	59	29	30	30	—	—	—	—	51.1	57.5	100.0	70.0	48.3	20.0	27.6	—			
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Other specified managers	4 327	2 149	2 178	1 997	89	76	128	115	34.3	34.0	90.4	89.3	29.2	25.2	4.8	4.1			
Managers and administrators, n.e.c.	51 826	25 710	26 116	23 689	957	897	1 134	842	37.7	34.6	91.0	86.9	29.7	14.9	9.9	11.3			
Salaries	45 903	23 107	22 796	21 271	912	850	1 036	772	36.0	32.8	92.0	87.4	30.2	14.6	9.9	—			
Self-employed	5 923	2 603	3 320	3 033	45	47	98	70	49.6	46.4	82.2	82.8	25.0	16.4	97.7	88.9			
Management related occupations	20 269	7 675	12 594	11 779	199	523	321	377	34.8	32.8	95.5	93.9	44.6	29.8	4.9	3.7			
Accountants and auditors	3 156	1 536	1 620	1 415	43	111	76	119	35.0	32.4	97.6	95.0	60.0	26.4	3.0	2.2			
Personnel, training, and labor relations specialists	1 425	482	943	441	26	56	10	26	33.4	30.7	97.9	87.3	34.2	27.1	1.7	2.3			
Buyers and purchasing agents	15 182	5 413	9 769	9 270	124	345	220	232	34.9	33.0	94.5	94.4	39.7	30.7	5.7	3.7			
Inspectors and compliance officers	38	7	31	26	—	5	—	—	30.0	37.0	100.0	96.8	100.0	—	—	—			
Other management related occupations	468	237	231	223	6	6	15	—	34.4	41.9	99.2	92.6	75.5	27.3	5.9	17.7			
Professional specialty occupations	8 524	3 198	5 326	4 695	222	366	230	198	38.3	31.3	85.8	88.1	27.8	22.9	9.3	7.1			
Engineers, architects, and surveyors	286	253	33	20	27	—	18	—	34.9	28.8	96.4	100.0	43.9	36.4	3.6	6.1			
Architects	107	99	8	72	8	—	5	—	37.5	25	100.0	100.0	57.6	—	9.1	25.0			
Engineers	179	154	25	128	13	—	13	—	34.0	30.4	94.2	100.0	35.1	48.0	—	—			
Civil engineers	21	21	—	8	13	—	—	—	65+	—	66.7	—	28.6	—	—	—			
Electrical and electronic engineers	7	7	—	—	—	—	—	—	30.0	—	100.0	—	—	—	—	—			
Industrial engineers	71	58	13	13	—	—	7	—	37.9	55.7	100.0	100.0	41.4	—	—	—			
Mechanical engineers	17	17	—	17	—	—	—	—	30.0	—	100.0	—	—	—	—	—			
Other engineers	63	51	12	38	6	—	6	—	32.9	30.0	96.1	100.0	47.1	100.0	—	—			
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Computer systems analysts and scientists	292	191	101	180	11	—	—	—	37.8	30.9	100.0	100.0	52.9	56.4	—	13.9			
Operations and systems researchers and analysts	87	67	20	59	—	—	—	—	37.6	30.6	88.1	100.0	58.2	90.0	—	—			
Mathematical scientists	54	54	—	40	14	—	—	—	—	—	—	—	—	—	—	—			
Natural scientists	34	24	10	24	—	—	—	—	39.6	25	100.0	100.0	54.2	—	—	—			
Chemists, except biochemists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Other natural scientists	34	24	10	24	—	—	—	—	39.6	25	100.0	100.0	54.2	—	—	—			
Health diagnosing occupations	43	31	12	31	—	—	—	—	63.2	45.0	100.0	100.0	61.3	50.0	—	—			
Health assessment and treating occupations	169	89	80	74	—	—	—	—	33.2	35.8	100.0	92.5	85.4	65.0	—	—			
Registered nurses	35	35	—	29	—	—	—	—	—	—	—	100.0	—	37.1	—	—			
Other health assessment and treating occupations	134	89	45	80	—	—	—	—	33.2	33.0	100.0	86.7	85.4	86.7	—	—			
Teachers, except postsecondary	166	31	135	15	9	15	—	—	34.3	40.7	77.4	94.8	22.6	27.4	25.8	11.1			
Social scientists and urban planners	136	63	73	63	8	8	—	—	38.0	29.5	100.0	86.3	77.8	38.4	11.1	—			
Social and recreation workers	38	16	22	14	2	—	—	—	65+	47.0	87.5	40.9	—	—	12.5	—			
Lawyers and judges	84	67	17	67	—	—	—	—	34.6	34.4	100.0	100.0	100.0	100.0	—	—			
Writers, artists, entertainers, and athletes	7 035	2 319	4 716	4 176	166	326	212	174	39.2	31.1	82.4	87.9	17.3	20.8	11.7	7.4			
Other professional specialty occupations	100	47	53	40	7	—	—	—	29.5	27.3	57.4	66.0	14.9	9.4	—	—			
Technical, sales, and administrative support occupations	693 586	178 808	514 778	468 382	14 062	30 108	12 886	25 029	30.7	32.8	78.4	71.6	15.9	6.2	10.5	5.0			
Technicians and related support occupations	1 101	764	337	278	21	45	—	—	32.2	31.9	90.8	92.8	29.8	15.1	—	8.0			
Health technologists and technicians	24	5	19	13	—	—	—	—	30.0	25	100.0	100.0	—	—	—	36.8			
Licensed practical nurses	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Other health technologists and technicians	5	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Engineering and science technicians	262	143	119	85	13	34	—	—	—	—	—	—	—	—	—	—			
Electrical and electronic technicians	63	40	23	35	5	10	—	—	49.2	25	60.0	100.0	14.7	5.0	—	—			
Industrial and mechanical engineering technicians	26	13	13	13	—	—	—	—	25.7	50.0	100.0	100.0	53.8	—	—	—			
Drafting and surveying technicians	124	69	55	61	8	5	—	—	45.6	28.6	91.3	100.0	20.3	10.9	—	—			
Other engineering and science technicians	49	21	28	21	22	6	—	—	50.8	28.3	33.3	100.0	—	—	—	—			
Technicians, except health, engineering, and science	815	616	199	536	8	11	—	—	31.4	34.2	94.5	89.4	33.6	22.6	—	10.1			
Airplane pilots and navigators	2	2	—	—	—	—	—	—	30.0	—	100.0	—	100.0	—	—	—			
Air traffic controllers and broadcast equipment operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Computer programmers	632	499	133	423	8	6	—	—	30.7	32.7	98.8	97.7	32.3	28.6	—	4.5			
Other technicians, except health, engineering, and science	181	115	66	111	—	5	—	—	42.9	41.9	75.7	72.7	38.3	10.6	—	21.2			

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States		Apparel and accessory stores										Percent self-employed	
		Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
		Total		White		Black		Male		Female		Male	
Both sexes		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.													
Technical, sales, and administrative support occupations—Con.													
Sales supervisors	608 539	163 142	445 397	144 218	407 916	11 790	23 623	11 383	21 666	31.0	32.4	16.3	6.3
Supervisors and proprietors, sales occupations	115 331	53 556	61 775	48 854	57 898	2 531	2 091	3 027	2 494	36.4	35.1	26.3	15.4
Soloid	89 463	42 211	47 252	38 468	44 250	2 541	1 789	2 543	1 932	33.7	32.1	26.2	15.6
Self-employed	25 868	11 345	14 523	10 386	13 648	288	302	484	562	48.0	45.2	26.6	14.5
Sales representatives, finance and business services	863	231	632	217	595	8	18	6	42	33.2	32.2	41.1	9.0
Sales representatives, commodities, except retail	12	7	5	7	5	5	5	5	5	30.0	25	100.0	100.0
Sales workers, retail and personal services	491 065	109 261	381 804	95 077	348 276	9 227	21 494	8 350	19 089	26.6	31.4	11.3	4.8
Cashiers	35 543	1 521	34 022	1 179	29 006	189	3 248	188	2 668	25	25	5.5	2.7
Other sales occupations, retail and personal services	455 522	107 740	347 782	93 898	319 270	9 038	18 246	8 162	16 421	26.7	32.8	11.4	5.0
Sales related occupations	1 268	87	1 181	63	1 147	24	15	16	41	25	44.4	13.8	5.7
Administrative support occupations, including clerical													
Supervisors, administrative support occupations	83 946	14 902	69 044	11 708	60 188	2 251	6 440	1 503	3 336	27.0	34.9	10.5	6.0
Computer equipment operators	5 100	1 523	3 577	1 310	3 277	157	197	103	246	35.2	35.5	26.3	7.3
Secretaries, stenographers, and typists	8 508	169	8 339	127	7 561	41	112	26	51	26.3	28.1	7.0	4.7
Secretaries	7 481	125	7 356	101	6 779	24	351	17	374	36.4	32.7	33.7	6.5
Stenographers and typists	1 027	44	983	26	782	18	158	8	67	36.3	28.3	32.8	7.0
Receptionists	1 055	14	1 041	14	898	19	90	6	24	50.0	27.3	36.4	2.6
Other information clerks	1 137	118	1 019	95	902	19	89	6	42	28.8	30.3	12.7	4.2
File clerks	571	51	520	32	368	19	138	36	124	25	27.1	56.9	71.0
Other records processing occupations, except financial	2 515	427	2 088	280	1 667	96	329	96	124	28.9	32.3	12.9	4.2
Bookkeepers, accounting, and auditing clerks	23 568	1 552	22 016	1 419	20 642	51	822	99	601	51.2	39.5	22.8	8.1
Payroll and timekeeping clerks	1 005	78	927	65	767	32	97	8	84	25	32.1	12.8	5.4
Other financial records processing occupations	1 758	243	1 515	181	1 182	32	231	29	168	29.3	34.8	14.0	3.6
Telephone operators	803	—	803	—	693	104	—	—	—	—	33.0	1.0	—
Mail and message distributing occupations	1 149	561	588	383	464	114	83	58	50	27.6	37.9	8.6	3.1
Production coordinators and expeditors	2 118	255	1 863	182	1 535	21	285	32	88	46.1	36.1	5.1	5.7
Traffic, shipping, and receiving clerks	6 725	3 223	3 502	2 421	2 617	586	782	405	192	26.3	36.7	3.1	1.9
Stock and inventory clerks	8 918	4 232	4 686	3 183	3 773	791	662	419	205	25	29.8	4.4	4.8
Other material recording, scheduling, and distributing clerks	2 429	358	2 071	85	454	85	243	75	223	25	39.8	1.4	2.2
Adjusters and investigators	1 605	290	1 315	245	1 008	35	235	19	150	36.3	30.9	26.6	6.5
Date-entry keyers	1 528	89	1 439	75	1 066	150	959	88	485	28.9	29.7	86.5	84.7
Other administrative support occupations	12 078	1 273	10 805	1 068	9 476	150	959	88	485	30.4	34.4	14.4	5.6
Service occupations													
Private household occupations	12 560	7 273	5 287	5 180	3 627	1 643	1 366	601	380	32.8	38.3	4.5	4.8
Protective service occupations	2 441	1 272	1 169	977	980	231	140	108	48	34.1	31.3	11.6	5.8
Guards	2 362	1 225	1 137	930	948	231	140	108	48	34.3	31.1	10.8	6.0
Other protective service occupations	79	47	32	47	32	—	—	—	—	32.6	35.6	100.0	100.0
Service occupations, except protective and household	10 119	6 001	4 118	4 203	2 647	1 412	1 226	493	332	32.3	40.1	39.0	34.0
Food preparation and service occupation	877	177	700	140	487	14	175	25	31	25.4	40.0	14.7	3.1
Health service occupations	18	—	18	—	12	—	6	—	—	—	40.0	—	—
Cleaning and building service occupations, except household	7 544	5 578	1 966	3 857	985	1 364	880	454	154	32.4	46.1	2.3	1.4
Personal service occupations	1 680	246	1 434	206	1 163	34	165	14	147	36.4	32.6	9.8	9.4
Farming, forestry, and fishing occupations													
Precision production, craft, and repair occupations	49 328	17 833	31 495	15 148	25 628	1 320	2 988	2 099	3 190	46.7	49.0	8.4	4.9
Mechanics and repairers	1 501	318	1 183	1 099	146	84	—	110	9	34.6	38.6	6.9	6.6
Supervisors, mechanics and repairers	306	209	97	178	69	—	—	38	—	43.7	50.2	16.3	12.4
Automobile mechanics, including body	344	332	12	320	12	—	—	15	—	28.7	25	2.1	—
Industrial machinery repairers	174	158	16	119	7	26	—	7	9	46.1	26.1	4.4	—
Electronic repairers, communications and industrial equipment	56	50	6	50	6	—	—	—	—	32.1	60.0	20.0	—
Heating, air conditioning, and refrigeration mechanics	58	58	—	38	—	8	—	—	—	33.9	—	100.0	—
Other mechanics and repairers	563	511	52	394	52	44	—	50	—	34.0	36.4	6.5	—
Construction trades													
Supervisors, construction occupations	867	788	79	701	72	45	—	66	—	34.4	34.8	67.0	64.6
Carpenters	58	50	8	45	8	—	—	—	—	50.4	25	—	—
Electricians	392	377	15	345	15	5	—	37	—	39.5	34.4	4.5	—
Painters, construction and maintenance	77	70	7	61	7	—	—	30.9	60.0	92.9	—	17.1	—
Plumbers, pipefitters, and steamfitters	166	140	26	127	26	7	—	6	—	29.5	28.1	14.3	—
Other construction trades	33	33	—	25	—	8	—	—	—	46.7	—	—	—
Other construction trades	141	118	23	98	16	20	—	23	—	26.5	60.0	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see appendix A.]

United States															
Apparel and accessory stores															
Both sexes	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con															
Precision production, craft, and repair occupations—Con															
Extrusive occupations															
Precision production occupations															
Supervisors, precision occupations															
Precision metalworking occupations															
Food and die makers															
Machinists															
Sheet metal workers															
Other precision metal workers															
Precision textile, apparel, and furnishings machine workers															
Precision food production occupations															
Precision inspectors, testers, and related workers															
Plant and system operators															
Other precision production occupations															
Operators, fabricators, and laborers															
Machine operators, assemblers, and inspectors															
Machine operators and tenders, except precision															
Metalworking and plastic working machine operators															
Fabricating machine operators, n e c															
Metal and plastic processing and woodworking machine operators															
Printing machine operators															
Textile machine operators															
Textile sewing machine operators															
Laundry and dry cleaning machine operators															
Packaging and filling machine operators															
Furnace, kiln, and oven operators, except food															
Other specified machine operators															
Miscellaneous and not specified machine operators															
Fabricators, assemblers, and hand working occupations															
Welders and cutters															
Soldiers and brazers															
Assemblers															
Hand working occupations															
Production inspectors, testers, samplers, and weighers															
Graders and sorters, except agricultural															
Other production inspectors, testers, samplers, and weighers															
Transportation and material moving occupations															
Transportation occupations															
Motor vehicle operators															
Truck drivers															
Driver-sales workers															
Other motor vehicle operators															
Rail and water transportation occupations															
Material moving equipment operators															
Supervisors, material moving equipment operators															
Crane, hoist and winch operators															
Excavating, grading, and dozer machine operators															
Other material moving equipment operators															
Handlers, equipment cleaners, helpers, and laborers															
Supervisors, handlers, equipment cleaners, and laborers, n e c															
Helpers, craft and production															
Construction laborers															
Freight, stock, and material handlers															
Garage and service station occupations, and equipment cleaners															
Hand packers and packagers															
Laborers, except construction															

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Eating and drinking places																
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed				
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female			
	Both sexes	Male	Female	Male	Female	Male									Female	Male	Female
Employed persons 16 years and over	4 181 272	1 689 520	2 491 752	1 383 943	2 178 203	146 602	193 008	160 699	118 787	25—	25.6	55.3	56.5	8.3	3.5	8.1	3.5
Managerial and professional specialty occupations	583 365	377 556	205 809	333 495	183 143	19 296	11 447	21 620	9 439	33.6	34.4	82.5	74.9	19.8	9.0	22.2	21.2
Executive, administrative, and managerial occupations	557 182	360 473	196 709	318 774	175 086	17 961	10 883	20 142	9 093	33.8	34.9	82.5	74.8	19.7	8.5	22.3	21.7
Officials and administrators, public administration	121	11	10	10	10	7	7	—	10	25—	30.0	36.4	100.0	—	—	36.4	—
Financial managers	1 587	1 000	587	919	516	27	10	45	5	34.2	36.6	96.8	91.8	61.0	17.5	2.1	3.1
Managers, marketing, advertising, and public relations	5 219	4 111	1 108	3 902	1 020	94	42	184	52	33.1	33.8	91.9	80.8	28.1	16.5	3.4	10.7
Administrators, education and related fields	156	111	45	103	38	8	8	—	—	33.0	30.3	81.1	82.2	18.0	—	26.1	24.4
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	9 259	5 914	3 345	4 848	2 949	581	188	629	255	31.5	33.6	81.4	77.5	20.8	8.2	11.4	10.7
Managers and administrators, n.e.c.	524 325	340 518	183 807	301 117	163 709	16 828	10 126	18 819	8 339	33.9	35.1	82.2	74.2	19.1	8.0	23.2	22.8
Salaried	396 141	259 449	136 692	230 024	122 317	13 734	8 216	14 148	5 699	31.4	31.3	85.3	76.5	20.5	8.3	—	—
Self-employed	128 184	81 069	47 115	71 093	41 392	3 094	1 910	4 671	2 640	45.0	45.5	72.4	67.5	14.5	7.1	97.4	89.1
Management related occupations	16 615	8 808	7 807	7 881	6 844	436	517	465	424	32.1	31.2	87.9	84.5	34.6	17.7	5.7	3.8
Accountants and auditors	5 398	2 455	2 223	2 587	2 587	74	155	96	172	32.9	32.5	96.8	94.4	44.6	30.4	4.2	2.3
Personnel, training, and labor relations specialists	7 464	3 848	3 616	3 417	3 123	254	290	202	222	38.0	28.3	83.3	76.0	20.3	6.9	4.7	4.6
Buyers and purchasing agents	2 544	1 660	884	1 490	802	37	46	149	24	36.2	35.0	86.6	84.5	21.6	16.5	6.7	4.2
Inspectors and compliance officers	1 175	718	57	102	45	16	6	—	—	34.0	27.9	62.7	71.9	8.5	33.3	14.4	6.5
Other management related occupations	1 034	727	307	649	287	55	20	18	6	34.1	32.0	89.3	92.8	42.9	23.8	12.4	6.5
Professional specialty occupations	26 183	17 083	9 100	14 721	8 057	1 315	564	1 478	346	30.5	28.3	82.3	78.5	20.9	21.0	19.8	8.5
Engineers, architects, and surveyors	736	661	75	619	66	36	—	11	8	35.7	33.0	87.7	82.7	44.9	26.7	1.1	—
Architects	240	213	27	187	18	26	—	—	—	35.8	32.2	91.1	88.9	62.0	55.6	—	—
Engineers	496	448	48	432	48	10	—	11	—	35.5	33.3	86.2	79.2	36.8	10.4	1.6	—
Civil engineers	191	175	16	171	16	4	—	—	—	31.7	47.0	92.0	75.0	37.1	—	—	—
Electrical and electronic engineers	37	32	5	32	5	—	—	4	—	25—	40.0	62.5	100.0	—	100.0	—	—
Industrial engineers	83	62	21	62	21	—	—	—	—	50.8	27.5	75.8	71.4	29.0	—	—	—
Mechanical engineers	61	61	—	61	—	—	—	—	—	41.8	—	90.2	—	32.8	—	—	—
Other engineers	124	118	6	106	6	6	—	7	—	37.9	30.0	87.3	100.0	52.5	—	5.9	—
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer systems analysts and scientists	269	213	56	213	56	—	—	10	—	34.3	30.9	100.0	100.0	58.7	55.4	—	—
Operations and systems researchers and analysts	78	72	6	72	6	—	—	—	—	32.7	30.0	100.0	100.0	100.0	100.0	—	—
Mathematical scientists	17	6	11	6	11	—	—	—	—	30.0	50.0	100.0	100.0	100.0	45.5	—	—
Natural scientists	159	50	109	50	62	—	—	3	—	38.3	37.2	80.0	54.1	78.0	17.4	—	19.3
Chemists, except biochemists	46	26	20	26	4	—	—	—	—	38.8	40.5	61.5	75.0	61.5	—	—	—
Other natural scientists	113	24	89	24	58	—	—	3	—	37.7	35.3	100.0	49.4	95.8	21.3	—	23.6
Health diagnosing occupations	37	32	5	32	5	—	—	—	—	41.7	40.0	100.0	—	81.3	—	34.4	—
Health assessment and treating occupations	956	225	731	198	600	13	104	8	—	38.7	31.3	93.8	88.2	60.0	61.3	12.0	3.3
Registered nurses	59	5	54	5	50	—	—	—	—	50.0	38.6	100.0	88.9	—	33.3	—	22.2
Other health assessment and treating occupations	897	220	677	193	550	13	104	8	—	38.3	30.8	93.6	88.2	61.4	63.5	12.3	1.8
Teachers, except postsecondary	541	200	341	140	272	42	51	25	11	28.0	28.3	77.0	80.1	32.0	29.9	3.5	2.9
Social scientists and urban planners	445	232	213	209	210	—	—	—	—	34.1	27.7	97.8	98.6	72.8	50.7	2.6	—
Social and recreation workers	102	16	86	16	51	—	—	—	—	26.1	33.4	100.0	73.3	56.3	19.8	—	—
Lawyers and judges	337	262	75	240	75	22	—	8	—	34.4	31.4	100.0	100.0	96.2	65.3	21.0	8.0
Writers, artists, entertainers, and athletes	22 287	14 994	7 293	12 841	6 565	1 194	353	1 413	298	30.0	27.7	80.9	77.0	15.6	14.5	21.7	9.8
Other professional specialty occupations	219	120	99	105	83	8	—	—	—	48.8	38.5	100.0	73.7	50.8	47.5	18.3	—
Technical, sales, and administrative support occupations	396 177	67 657	328 520	55 898	270 959	6 965	39 555	5 710	19 943	25—	25—	62.5	57.3	10.5	3.2	11.5	2.2
Technicians and related support occupations	1 911	1 328	583	1 240	506	42	49	109	31	29.2	29.1	81.1	83.7	26.1	19.7	5.5	3.9
Health technologists and technicians	216	62	154	55	98	—	37	—	19	28.3	31.9	46.8	60.4	27.4	—	19.4	—
Licensed practical nurses	59	2	57	2	31	—	18	—	8	60.0	52.5	45.6	45.6	—	—	100.0	—
Other health technologists and technicians	157	60	97	53	67	—	19	—	11	27.5	29.8	48.3	69.1	28.3	—	16.7	—
Engineering and science technicians	608	462	146	413	133	22	8	97	—	31.4	28.5	72.3	87.7	12.6	17.1	7.1	3.4
Electrical and electronic technicians	112	91	21	80	21	6	—	13	—	28.1	28.9	76.9	100.0	2.2	33.3	5.5	—
Industrial and mechanical engineering technicians	90	90	—	90	—	16	—	31	—	25—	—	55.6	—	—	—	—	—
Drafting and surveying technicians	225	181	44	174	39	—	—	36	—	33.6	32.3	74.0	93.2	14.9	—	12.7	11.4
Other engineering and science technicians	181	100	81	100	73	—	8	17	—	43.6	25.2	80.0	81.5	29.0	22.2	5.0	—
Technicians, except health, engineering, and science	1 087	804	283	772	275	20	4	12	12	28.3	27.7	88.8	94.3	33.8	31.8	3.5	6.4
Airplane pilots and navigators	69	69	—	69	—	—	—	—	—	35.7	—	100.0	—	—	—	—	—
Air traffic controllers and broadcast equipment operators	173	156	17	145	17	11	—	5	—	25—	25—	85.9	58.8	12.8	—	3.2	41.2
Computer programmers	429	299	130	299	122	4	4	7	5	28.4	28.4	93.0	100.0	34.4	26.9	—	—
Other technicians, except health, engineering, and science	416	280	136	259	136	9	—	—	7	28.6	30.8	83.2	93.4	47.9	40.4	8.2	8.1

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																
Employed persons 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations																
Supervisors and proprietors, sales occupations																
Salaried																
Self-employed																
Sales representatives, finance and business services																
Sales representatives, commodities, except retail																
Sales workers, retail and personal services																
Cashiers																
Other sales occupations, retail and personal services																
Sales related occupations																
Administrative support occupations, including clerical																
Supervisors, administrative support occupations																
Computer equipment operators																
Secretaries, stenographers, and typists																
Secretaries																
Stenographers and typists																
Receptionists																
Other information clerks																
File clerks																
Other records processing occupations, except financial																
Bookkeepers, accounting, and auditing clerks																
Payroll and timekeeping clerks																
Other financial records processing occupations																
Telephone operators																
Mail and message distributing occupations																
Production coordinators and expeditors																
Traffic, shipping, and receiving clerks																
Stock and inventory clerks																
Other material recording, scheduling, and distributing clerks																
Adjusters and investigators																
Data-entry keyers																
Other administrative support occupations																
Service occupations																
Private household occupations																
Protective service occupations																
Guards																
Other protective service occupations																
Food preparation and service occupations																
Health service occupations																
Cleaning and building service occupations, except household																
Personal service occupations																
Farming, forestry, and fishing occupations																
Precision production, craft, and repair occupations																
Mechanics and repairers																
Supervisors, mechanics and repairers																
Automotive mechanics, including body																
Industrial machinery repairers																
Electronic repairers, communications and industrial equipment																
Heating, air conditioning, and refrigeration mechanics																
Other mechanics and repairers																
Construction trades																
Supervisors, construction occupations																
Carpenters																
Electricians																
Painters, construction and maintenance																
Plumbers, pipefitters, and steamfitters																
Other construction trades																
Both sexes																
Total																
Male																
Female																
White																
Male																
Female																
Black																
Male																
Female																
Spanish origin ¹																
Male																
Female																
Median age																
Male																
Female																
Percent high school graduates																
Male																
Female																
Percent completed 4 or more years of college																
Male																
Female																
Percent self-employed																
Male																
Female																

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Eating and drinking places													
United States													
Employed persons 16 years and over—Con.													
Both sexes	Total		Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college
	Male	Female	White		Black		Male	Female	Male	Female	Male	Female	
16 388	9 501	6 887	7 873	5 687	1 007	862	966	413	27.5	28.5	61.9	64.7	—
7 491	3 472	4 019	3 043	3 445	287	399	216	186	27.4	25—	80.6	72.5	2.8
268	196	4 72	170	67	5	5	15	45.9	33.0	45.9	55.6	55.6	13.1
150	104	46	93	41	11	5	—	—	26.3	31.0	62.5	43.5	—
45	45	—	37	—	—	—	8	—	43.9	—	53.3	—	—
73	47	26	40	26	7	—	7	—	40.0	58.5	42.6	76.9	—
89	25	64	25	36	—	—	—	10	25—	55.0	44.0	43.8	—
8 218	5 522	2 696	4 439	2 108	650	453	710	202	27.0	33.6	50.1	54.2	2.6
32	17	15	11	15	6	—	15	—	25—	25—	100.0	—	—
233	228	5	150	—	46	5	19	—	31.6	40.0	71.9	—	3.9
57	41	16	35	16	—	—	6	—	32.8	41.7	41.5	75.0	—
49 653	35 544	14 109	29 419	10 936	3 945	2 344	3 482	1 048	25—	27.0	56.6	52.1	3.9
6 415	3 010	3 405	2 223	2 510	518	482	432	241	25—	29.1	45.9	34.9	4.6
4 841	2 254	2 587	1 492	1 905	361	521	326	186	25—	29.8	47.3	53.4	5.0
118	67	51	59	39	4	12	10	—	38.5	25—	70.1	51.0	6.0
7	—	7	—	7	—	—	—	—	—	—	—	—	—
56	34	22	22	18	—	—	—	—	25.0	25—	88.2	77.3	—
100	40	60	34	55	6	5	—	—	25—	25—	55.0	40.0	—
59	26	33	26	33	—	—	14	—	25—	25—	11.5	100.0	3.3
21	—	21	—	15	6	—	—	—	25—	25—	—	90.5	39.4
1 085	177	908	116	656	23	173	12	91	29.6	40.6	49.7	44.7	4.0
51	14	37	9	12	5	—	—	11	25—	27.8	64.3	70.3	5.0
83	95	12	70	12	7	—	—	8	25—	25—	42.2	33.3	18.9
652	418	234	342	175	42	44	85	10	25—	26.1	53.6	26.1	6.0
2 597	1 202	1 014	876	281	274	281	205	66	25—	25—	43.6	56.6	8.9
1 325	642	683	454	518	130	113	83	48	25—	26.0	48.1	56.7	4.2
119	119	—	93	—	—	—	38	—	25—	—	47.9	—	0.3
690	279	411	181	296	70	83	16	—	25—	—	—	—	—
516	244	272	180	222	60	30	29	31	26.0	—	54.8	56.7	0.7
249	114	135	77	87	27	48	23	7	25—	28.7	40.6	56.6	1.7
44	12	32	7	29	5	3	—	—	26.7	30.5	75.4	73.3	3.3
205	102	103	70	58	22	45	23	7	25—	38.3	16.7	65.6	21.1
26 940	22 378	4 562	19 379	3 971	1 836	400	1 973	205	27.6	28.0	82.4	75.7	23.5
26 543	22 077	4 466	19 193	3 907	1 731	368	1 966	205	25—	27.1	63.4	62.7	4.6
26 494	22 041	4 453	19 157	3 894	1 731	368	1 966	205	25—	27.2	63.5	63.5	4.6
20 768	17 198	3 570	14 934	3 132	1 436	307	1 469	179	25—	27.3	63.6	63.5	4.7
3 293	2 583	710	2 300	613	104	53	210	26	25—	26.4	62.8	62.0	4.6
2 433	2 260	173	1 923	149	191	8	282	5	31.5	30.6	72.2	72.3	4.9
49	36	13	36	13	—	—	5	—	25—	30.6	59.6	57.2	5.0
397	301	96	186	64	105	32	7	—	31.7	25—	41.7	53.8	—
24	24	—	24	—	—	—	—	—	32.1	25—	56.5	26.0	—
31	17	14	17	14	—	—	—	—	60.0	—	—	—	—
46	19	27	19	27	—	—	—	—	25—	—	—	—	—
296	241	55	126	23	105	32	7	—	32.9	—	—	—	—
16 298	10 156	6 142	7 817	4 455	1 591	1 262	1 057	602	33.1	25.2	60.6	45.5	—
116	46	70	46	60	—	—	—	—	25—	25.9	44.0	42.7	2.3
255	146	109	110	72	27	19	27	19	48.5	31.5	56.5	57.1	1.4
390	345	45	257	29	88	16	17	—	36.7	30.9	32.2	35.0	—
4 888	4 024	864	3 203	673	588	180	299	40	30.8	45.5	61.4	40.0	10.1
1 093	815	278	671	177	110	84	34	25	25—	25—	43.3	51.6	2.0
3 250	606	2 644	386	1 901	124	501	148	276	25—	27.1	39.8	50.7	2.2
8 306	4 174	2 132	3 144	1 543	674	452	532	235	23—	28.1	44.9	39.7	5.6

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																															
Employed persons 16 years and over																															
Both sexes				Total				Race				Other retail trade				Percent high school graduates			Percent completed 4 or more years of college		Percent self-employed										
Male		Female		Male		Female		Male		Female		Male		Female		Male		Male		Female		Male		Female							
4	137	207	2	189	775	1	947	432	2	005	123	1	809	029	113	219	81	426	100	940	72	442	34.4	35.4	76.2	78.5	18.0	9.8	14.7	11.4	
678	840	420	064	258	776	398	844	245	040	10	335	6	746	7	111	38.9	36.6	91.3	88.2	41.6	22.3	22.3	13.8	15.0	13.8	15.0	13.8	15.0	13.8	15.0	
437	503	291	825	145	678	278	160	137	801	6	920	4	162	3	785	38.7	37.9	89.6	88.9	29.2	17.5	17.5	12.2	13.6	12.2	13.6	12.2	13.6	12.2	13.6	
11	670	6	816	4	867	6	514	4	684	140	106	106	106	107	107	37.0	36.9	94.5	94.1	45.5	14.3	14.3	0.9	1.4	0.9	1.4	0.9	1.4	0.9	1.4	
81	555	57	671	23	884	55	470	22	565	1	157	695	37	578	37	36.7	37.6	92.0	89.8	29.5	18.0	18.0	8.3	12.9	8.3	12.9	8.3	12.9	8.3	12.9	
297	297	185	112	112	112	175	106	106	106	10	10	6	6	6	6	34.9	34.9	83.8	83.8	47.6	35.7	35.7	13.0	15.2	13.0	15.2	13.0	15.2	13.0	15.2	
13	951	9	420	4	531	8	854	4	222	—	278	189	189	189	189	36.5	37.4	87.1	86.7	28.8	16.8	16.8	8.9	10.4	8.9	10.4	8.9	10.4	8.9	10.4	
266	859	184	507	87	352	175	916	78	433	4	352	1	975	2	060	38.5	38.9	88.5	87.5	26.8	16.2	16.2	17.2	14.6	17.2	14.6	17.2	14.6	17.2		
221	920	156	688	65	232	149	683	62	106	3	828	1	742	1	693	38.6	38.6	89.5	88.2	27.7	15.7	15.7	—	—	—	—	—	—	—	—	
44	939	27	819	17	120	26	233	16	327	367	524	233	367	367	367	46.8	45.0	82.4	84.8	22.1	18.2	18.2	82.9	97.0	82.9	97.0	82.9	97.0	82.9	97.0	
63	154	33	230	29	924	31	229	27	783	1	191	983	1	191	1	066	36.2	35.3	91.6	91.6	38.2	21.1	21.1	8.0	6.8	8.0	6.8	8.0	6.8	8.0	
16	041	7	982	8	059	7	189	7	219	336	340	336	340	340	340	34.2	34.2	98.1	95.0	41.2	24.2	24.2	3.5	3.3	3.5	3.3	3.5	3.3	3.5	3.3	
6	546	3	723	2	823	3	451	2	530	166	166	166	166	166	166	35.9	35.3	84.6	87.1	27.7	19.5	19.5	5.3	4.0	5.3	4.0	5.3	4.0	5.3	4.0	
37	212	19	716	17	496	18	864	16	628	421	511	533	432	432	432	36.8	36.8	90.5	90.9	36.2	19.8	19.8	9.9	8.3	9.9	8.3	9.9	8.3	9.9	8.3	
276	276	197	79	79	79	23	23	23	23	7	7	15	40.0	32.1	16.5	70.9	70.9	92.1	90.6	47.7	22.2	22.2	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	
3	079	1	612	1	467	1	535	1	359	1	49	54	54	54	54	37.5	37.5	92.1	90.6	47.7	22.2	22.2	13.3	14.2	13.3	14.2	13.3	14.2	13.3	14.2	
241	337	128	239	113	098	120	684	107	239	3	415	2	584	3	326	39.5	34.9	95.2	87.2	70.0	28.4	28.4	17.5	16.8	17.5	16.8	17.5	16.8	17.5	16.8	
3	971	3	509	462	3	321	321	445	14	14	82	5	7	20	11	32.7	33.0	94.3	86.9	31.4	47.7	47.7	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
554	401	105	374	146	5	374	146	146	5	7	7	7	7	7	7	34.8	34.8	95.9	87.4	38.0	22.5	22.5	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	
3	404	3	098	306	3	2	937	296	14	68	77	7	7	7	7	33.6	25	97.1	87.4	46.6	—	—	—	—	—	—	—	—	—	—	—
220	206	206	14	206	14	206	14	206	14	17	17	17	17	17	17	33.1	36.4	96.8	100.0	54.9	52.5	52.5	6.0	—	—	—	—	—	—	—	
672	632	632	33	632	33	632	33	632	33	19	19	19	19	19	19	39.6	43.8	90.9	90.9	38.9	7.5	7.5	1.9	—	—	—	—	—	—	—	
414	321	321	93	321	93	321	93	321	93	3	3	3	3	3	3	39.0	39.0	100.0	100.0	29.1	27.7	27.7	9.1	—	—	—	—	—	—	—	
396	385	385	11	385	11	385	11	385	11	—	—	—	—	—	—	34.5	28.8	97.0	93.9	32.0	27.7	27.7	1.8	—	—	—	—	—	—	—	
1	702	1	554	148	1	148	148	148	148	51	51	—	—	—	—	30.0	40.0	100.0	100.0	20.0	100.0	100.0	—	—	—	—	—	—	—	—	
13	10	10	3	10	3	10	3	10	3	—	—	—	—	—	—	32.8	30.8	99.7	99.7	51.2	52.4	52.4	0.8	—	—	—	—	—	—	—	
3	056	2	296	760	2	111	713	181	181	70	125	23	23	23	23	35.2	33.0	100.0	93.2	47.1	43.4	43.4	—	—	—	—	—	—	—	—	
742	537	205	357	205	357	205	357	205	357	9	9	9	9	9	9	37.5	33.3	93.3	90.5	73.3	37.3	37.3	3.8	—	—	—	—	—	—	—	
263	105	105	358	105	358	105	358	105	358	48	48	48	48	48	48	38.0	37.5	91.0	88.2	55.8	32.6	32.6	8.0	9.5	8.0	9.5	8.0	9.5	8.0	9.5	
1715	1	1	065	650	1	960	602	602	109	26	37	26	26	26	26	38.9	37.7	100.0	97.1	65.7	46.1	46.1	2.5	15.7	2.5	15.7	2.5	15.7	2.5	15.7	
334	239	239	113	239	113	186	109	109	109	48	48	48	48	48	48	35.2	29.5	98.4	90.1	52.9	29.7	29.7	9.6	8.2	9.6	8.2	9.6	8.2	9.6	8.2	
1	361	2	816	578	2	882	465	465	465	43	43	43	43	43	43	41.5	35.4	97.8	97.9	88.1	40.1	40.1	34.1	17.5	34.1	17.5	34.1	17.5	34.1	17.5	
3	337	82	094	19	278	77	556	17	465	1	749	695	695	695	695	47.8	47.8	97.1	97.1	81.1	43.7	43.7	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	
101	372	82	094	19	278	77	556	17	465	1	749	695	695	695	695	47.8	47.8	97.1	97.1	81.1	43.7	43.7	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	
925	441	441	484	484	484	421	430	430	430	—	—	—	—	—	—	33.9	41.0	98.2	97.7	87.8	43.2	43.2	10.9	7.2	10.9	7.2	10.9	7.2	10.9	7.2	
100	447	81	653	18	794	77	135	17	035	1	749	656	656	656	656	43.0	33.9	98.2	97.7	87.8	43.2	43.2	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	
12	027	3	235	8	792	3	074	8	550	85	112	85	96	96	96	28.0	39.7	86.2	87.6	24.4	22.2	22.2	22.0	23.0	22.0	23.0	22.0	23.0	22.0	23.0	
1	970	1	148	822	1	093	722	148	84	35	722	9	347	30.2	30.2	30.2	30.2	97.2	98.3	64.5	43.6	43.6	3.4	3.9	3.4	3.9	3.4	3.9	3.4	3.9	
569	192	192	377	377	377	173	357	67	67	6	14	6	6	6	6	33.6	38.6	97.3	92.2	40.6	24.1	24.1	11.5	9.0	11.5	9.0	11.5	9.0	11.5	9.0	
444	377	377	67	377	67	377	67	377	67	7	7	7	7	7	7	40.6	32.4	97.3	100.0	91.8	67.2	67.2	1.1	14.9	1.1	14.9	1.1	14.9	1.1	14.9	
109	895	29	700	80	195	27	639	76	775	1	589	1	589	1	589	36.0	36.1	85.2	84.4	24.8	17.5	17.5	23.7	18.4	23.7	18.4	23.7	18.4	23.7	18.4	
1	976	1	163	1	092	1	092	1	092	8	8	8	8	8	8	40.5	39.2	91.5	89.9	43.8	41.2	41.2	40.1	13.4	40.1	13.4	40.1	13.4	40.1	13.4	
2	554	613	1	045	345	1	509	268	813	44	083	55	162	55	162	35.0	35.2	80.0	78.5	17.8	8.1	8.1	11.2	td							

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States																	
Employed persons 16 years and over—Con.																	
Other retail trade																	
Race				Spanish origin¹				Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
Total		White		Black		Male		Female		Male		Female		Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Technical, sales, and administrative support occupations—Con.																	
Sales occupations	913 489	1 034 828	856 588	967 463	31 440	37 054	35 861	37 946	36.2	35.0	80.8	75.4	18.6	8.8	21.2	15.0	
Supervisors and proprietors, sales occupations	291 234	134 051	276 629	127 524	7 069	3 014	9 211	3 621	40.6	41.4	86.3	85.1	23.8	17.1	35.4	42.0	
Salaries	186 890	73 120	177 823	69 502	4 805	1 951	6 000	2 122	36.8	36.2	89.5	86.9	25.0	17.3	—	—	
Self-employed	104 364	60 931	98 806	58 022	2 264	1 063	3 211	1 499	46.6	46.2	80.7	83.0	21.6	16.8	98.8	92.3	
Sales representatives, finance and business services	1 594	1 454	1 514	1 365	73	61	62	37	37.5	32.6	88.5	90.2	28.4	24.7	7.3	10.5	
Sales representatives, commodities, except retail	1 240	71	1 147	64	8	8	26	496	39.8	32.5	94.5	78.9	46.3	9.9	6.2	7.0	
Sales workers, retail and personal services	617 299	895 784	575 203	835 232	24 239	33 865	34 229	33.9	33.8	33.9	78.2	73.8	16.1	7.6	14.5	11.0	
Cashiers	186 511	23 471	19 297	144 304	2 631	12 053	8 777	25	25	25	67.0	66.9	7.7	2.8	1.6	0.8	
Other sales occupations, retail and personal services	593 828	732 744	555 906	690 928	21 608	21 812	24 789	25 452	34.2	35.9	78.6	75.4	16.5	8.6	15.0	13.3	
Sales related occupations	2 173	3 468	2 095	3 278	51	107	73	59	38.1	34.8	72.4	87.5	13.6	12.2	32.0	17.3	
Administrative support occupations, including clerical	588 592	119 417	102 689	436 897	11 361	20 162	7 732	17 025	29.2	35.9	72.5	85.2	11.1	6.4	2.8	2.7	
Supervisors, administrative support occupations	27 077	11 476	10 207	14 513	912	726	677	515	36.0	37.9	87.2	88.4	20.2	10.4	3.0	2.2	
Computer equipment operators	9 571	6 522	2 646	5 886	254	441	177	349	27.9	29.6	95.1	90.1	16.5	7.8	1.0	0.2	
Secretaries, stenographers, and typists	110 108	186 926	108 242	171 711	102 018	104	3 662	33.1	35.3	33.1	85.4	89.0	18.1	6.1	3.2	2.0	
Secretaries	95 290	138 444	93 926	127 438	45	2 493	473	2 969	37.2	33.3	87.0	89.8	19.0	6.3	2.5	2.2	
Stenographers and typists	14 818	502	14 316	438	12 613	59	1 169	893	30.5	30.4	81.1	84.0	15.7	4.7	5.2	0.8	
Receptionists	12 775	344	11 497	330	24	474	52	492	26.9	30.1	69.2	81.6	12.9	5.4	2.1	1.3	
Other information clerks	6 891	1 008	5 883	884	66	605	56	344	25	26.7	76.9	78.8	12.0	3.6	1.4	0.7	
File clerks	5 605	5 096	4 420	4 323	4	528	322	322	25	26.7	62.5	65.5	13.8	3.6	—	—	
Other records processing occupations, except financial	32 131	23 927	6 821	21 182	951	2 160	688	1 016	30.0	35.3	72.5	78.8	11.2	5.5	6.3	2.0	
Bookkeepers, accounting, and auditing clerks	164 014	10 144	153 870	148 193	370	2 523	421	3 656	41.9	40.4	87.0	89.6	20.7	7.1	6.2	4.7	
Payroll and timekeeping clerks	3 179	168	136	2 042	13	152	12	116	34.8	37.3	91.7	86.6	13.7	5.0	2.4	—	
Other financial records processing occupations	9 915	1 715	1 500	7 363	81	543	148	390	36.4	34.5	78.6	79.5	11.0	6.0	5.7	1.2	
Telephone operators	3 448	1 617	1 386	2 062	12	274	19	173	31.7	37.0	90.7	74.8	4.0	37.5	3.3	0.5	
Mail and message distributing occupations	12 611	5 794	5 604	4 852	853	777	456	203	25	36.1	59.3	69.3	3.8	5.5	2.6	1.8	
Production coordinators and expeditors	13 527	4 765	8 762	7 989	290	589	320	305	33.1	34.4	69.6	78.3	10.8	7.0	6.6	2.0	
Traffic, shipping, and receiving clerks	26 320	18 776	7 544	6 529	2 637	690	1 617	461	28.4	31.1	72.6	74.0	5.9	3.9	0.5	0.4	
Stock and inventory clerks	39 852	26 156	13 696	7 544	3 041	1 039	1 759	462	25	30.8	61.3	77.3	6.1	6.6	0.7	0.9	
Other material recording, scheduling, and distributing clerks	7 349	3 359	3 668	2 948	282	296	150	170	38.0	38.6	65.3	73.2	6.0	3.7	1.8	1.3	
Adjusters and investigators	10 463	3 888	6 575	5 684	306	666	230	351	33.5	32.4	78.6	87.4	20.4	6.8	2.9	1.3	
Data-entry keyers	9 950	5 369	4 788	7 847	54	1 043	38	485	26.6	29.6	82.8	87.2	13.6	3.4	1.2	—	
Other administrative support occupations	83 806	15 765	68 041	62 745	1 051	3 174	788	3 025	30.1	36.7	70.9	79.0	12.9	6.1	4.5	2.5	
Service occupations	88 401	38 433	49 968	41 904	6 507	6 493	2 830	2 325	32.9	35.3	47.3	59.2	5.1	3.7	2.2	1.9	
Private household occupations	6 506	5 358	1 148	4 207	981	1 60	285	123	46.8	29.8	63.3	76.7	5.9	4.7	0.4	1.0	
Protective service occupations	5 984	4 907	3 724	885	951	142	268	115	47.2	29.3	61.2	79.1	4.5	4.5	0.3	1.1	
Guards	81 895	33 075	48 820	40 966	5 526	6 333	2 545	2 202	43.5	40.0	85.2	40.8	21.3	8.5	1.6	—	
Other protective service occupations	25 355	4 982	20 373	4 099	713	2 365	369	731	30.8	35.5	44.7	58.8	5.0	3.7	2.5	1.9	
Food preparation and service occupation	16 196	2 349	13 847	2 030	155	565	93	555	28.4	28.3	52.3	48.3	4.2	7.9	5.8	1.1	
Health service occupations	34 866	24 718	10 148	12 820	4 549	2 925	2 037	628	26.2	28.3	77.8	86.0	29.2	7.2	1.8	0.4	
Cleaning and building service occupations, except household	5 478	1 026	864	3 791	109	478	46	288	32.1	35.0	39.2	37.8	2.4	1.9	1.4	1.7	
Personal service occupations	11 741	6 730	5 011	4 600	574	135	643	236	28.7	30.4	51.1	69.6	6.3	7.9	11.9	13.5	
Farming, forestry, and fishing occupations	360 854	314 475	289 475	41 715	13 414	2 681	18 781	2 678	34.6	36.9	70.8	74.9	6.1	8.2	16.2	12.7	
Precision production, craft, and repair occupations	128 080	24 247	116 436	3 416	4 240	302	5 066	127	34.7	31.7	72.9	78.2	4.1	10.2	11.8	9.0	
Mechanics and repairers	2 745	2 471	2 358	259	57	274	100	259	39.6	42.3	78.4	91.2	5.4	13.5	4.5	15.3	
Supervisors, mechanics and repairers	7 168	6 997	6 274	137	507	32	273	14	32.1	31.9	60.5	69.0	1.3	18.1	5.2	9.4	
Automobile mechanics, including body	5 325	5 147	4 835	127	228	51	175	—	35.9	33.8	72.9	75.8	2.9	—	3.9	3.9	
Industrial machinery repairers	24 068	23 793	22 209	259	771	16	926	24	35.8	30.2	80.5	82.9	4.2	4.0	18.5	12.0	
Electronic repairers, communications and industrial equipment	11 477	11 385	10 698	686	452	6	376	86	37.2	33.8	69.8	58.7	2.7	—	9.2	8.7	
Heating, air conditioning, and refrigeration mechanics	77 297	74 454	70 062	2 548	2 225	197	3 216	89	34.1	30.9	71.9	77.9	4.6	11.0	11.5	8.4	
Other mechanics and repairers	93 661	91 642	83 839	1 847	4 011	93	6 811	66	31.8	31.3	65.2	75.7	3.2	10.0	17.1	22.6	
Construction trades	1 683	1 642	1 583	34	48	41	78	—	37.9	47.1	79.4	82.9	14.2	17.1	6.9	17.1	
Supervisors, construction occupations	16 300	16 058	14 764	175	686	7	998	8	33.6	28.9	63.7	80.6	4.6	—	8.9	15.3	
Carpenters	3 974	3 896	3 619	69	133	9	219	—	32.6	31.8	77.4	66.7	3.1	10.3	9.7	9.0	
Electricians	4 195	3 618	3 127	568	328	—	219	—	31.8	36.7	54.2	76.3	4.8	16.8	10.2	31.2	
Painters, construction and maintenance	2 229	2 226	2 020	3	100	—	124	—	34.1	65+	68.5	—	2.6	—	6.9	—	
Pumbers, pipefitters, and steamfitters	65 280	64 218	58 726	998	2 716	30	5 107	38	31.2	29.5	65.0	74.9	2.5	8.4	20.6	20.9	
Other construction trades																	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States											
Other retail trade											
Employed persons 16 years and over—Con.											
Race											
Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Precision production, craft, and repair occupations—Con.											
Extractions occupations	301	295	6	222	70	2 286	14	41.9	30.0	49.5	100.0
Precision production occupations	138 812	98 275	40 537	88 978	5 093	2 286	6 890	38.5	37.9	73.5	74.6
Supervisors, production occupations	56 500	42 455	14 045	38 428	2 556	973	2 304	39.3	40.9	79.0	79.0
Precision metalworking occupations	14 033	10 267	3 766	9 071	3 368	158	1 125	33.7	29.3	72.9	77.9
Tool and die makers	1 191	179	12	152	7	36	91	33.2	45.0	73.2	100.0
Machinists	1 339	168	171	986	137	36	22	33.8	32.7	67.6	66.1
Sheet metal workers	640	581	59	479	62	122	980	35.4	45.3	67.8	79.7
Other precision metal workers	11 863	8 339	3 524	7 454	233	774	1 862	33.7	28.9	74.0	78.3
Precision textile, apparel, and furnishings machine workers	22 547	10 104	12 443	8 359	10 868	774	66	40.2	44.6	51.5	61.0
Precision food production occupations	1 450	884	566	757	66	154	1 862	40.7	45.3	57.1	51.6
Precision inspectors, testers, and related workers	194	134	60	118	46	7	31	31.7	28.5	86.6	63.0
Plant and system operators	905	850	55	808	32	15	58	37.0	25.9	69.4	60.6
Other precision production occupations	43 183	33 381	9 602	31 437	1 219	321	1 464	38.1	30.1	75.8	85.9
Operators, fabricators, and laborers	442 758	364 728	78 030	310 646	39 098	7 858	23 681	26.9	34.3	56.1	62.9
Machine operators, assemblers, and inspectors	79 252	47 483	31 417	40 349	4 640	2 966	4 269	31.1	37.3	58.2	64.4
Machine operators and tenders, except precision	49 050	29 400	19 650	24 285	3 288	1 831	2 862	32.3	38.3	56.9	64.0
Metallurgy and plastic working machine operators	1 923	1 534	389	1 192	141	46	304	33.9	33.6	44.7	61.7
Fabricating machine operators, n.e.c.	170	139	31	95	32	2	12	31.0	34.2	59.7	61.3
Metal and plastic processing and woodworking machine operators	5 043	4 418	625	3 671	538	135	297	33.8	48.5	61.1	61.1
Printing machine operators	3 636	2 466	1 370	1 928	225	95	111	33.6	31.9	76.2	73.5
Textile machine operators	541	217	324	149	258	55	34	35.3	39.5	47.9	75.3
Textile sewing machine operators	2 775	460	2 315	328	1 928	95	223	30.5	48.4	51.7	55.1
Laundry and dry cleaning machine operators	420	252	168	210	102	48	44	30.3	41.8	66.7	45.8
Packaging and filling machine operators	832	400	432	319	382	26	21	27.8	41.4	56.3	46.7
Furnace, kiln, and oven operators, except food	522	462	60	415	16	3	35	33.6	32.2	57.6	64.2
Other specified machine operators	10 470	7 456	3 014	6 208	812	275	655	30.7	32.2	57.6	64.2
Miscellaneous and not specified machine operators	22 718	11 796	10 922	9 770	1 289	923	1 279	32.6	39.1	57.6	64.2
Fabricators, assemblers, and hand working occupations	24 375	15 941	8 434	13 969	1 105	588	1 197	28.4	33.8	60.0	70.3
Welders and cutters	2 064	1 981	83	1 689	189	11	212	32.3	44.6	59.8	56.6
Solders and brazers	18 782	11 574	7 208	10 142	799	508	813	30.2	25.7	30.0	43.2
Assemblers	3 432	2 346	1 086	2 155	177	64	132	28.2	33.7	61.3	70.5
Hand working occupations	3 827	2 494	3 353	2 095	247	547	210	25	34.2	53.6	70.5
Production inspectors, testers, samplers, and weighers	3 239	1 366	1 873	1 399	144	352	130	33.6	41.3	62.3	51.8
Graders and sorters, except agricultural											
Other production inspectors, testers, samplers, and weighers	2 588	1 128	1 460	956	103	195	80	34.5	41.3	72.9	55.6
Transportation and material moving occupations	205 622	191 818	13 804	145 142	20 472	1 028	10 740	30.1	31.4	59.9	66.2
Transportation occupations	188 480	175 977	12 503	151 723	18 976	900	9 586	30.0	31.3	59.9	65.2
Major vehicle operators	188 209	175 937	12 272	151 450	18 799	897	9 586	30.0	31.2	59.9	65.0
Truck drivers	154 439	148 925	5 514	124 486	17 148	809	8 305	28.4	26.2	57.8	65.0
Other vehicle operators	28 756	22 587	6 169	20 994	5 833	444	848	33.1	35.1	77.3	85.0
Other material moving occupations	5 014	4 233	38	4 233	424	42	433	33.0	32.0	66.2	80.8
Rail and water transportation occupations	271	164	107	233	38	3	30	33.0	40.0	55.4	52.8
Material moving equipment operators	17 142	16 348	794	13 439	655	128	1 174	31.0	32.8	59.9	74.9
Supervisors, material moving equipment operators	3 480	3 457	33	3 235	33	3	186	34.7	36.9	48.6	51.5
Crane, derrick, and hoist operators	3 385	3 375	10	3 236	39	3	32	32.7	34.9	53.9	100.0
Excavating, grading, and dozer machine operators	576	573	3	527	33	4	44	34.1	25.3	44.0	100.0
Other material moving equipment operators	12 691	11 943	748	9 351	2 013	128	912	29.6	32.6	58.4	74.7
Handlers, equipment cleaners, helpers, and laborers	157 884	125 075	32 809	105 135	13 786	3 864	8 652	25	32.8	49.6	60.2
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	244	185	59	185	353	18	290	41.0	32.7	65.4	91.5
Helpers, craft and production	2 897	2 572	325	2 015	277	59	17	25	39.6	43.9	54.2
Construction laborers	1 631	1 566	65	1 286	208	6	92	29.0	28.6	58.0	58.5
Freight, stock, and material handlers	72 515	61 930	10 585	52 889	6 265	867	3 875	25	27.7	43.2	63.3
Garage and service station occupations, and equipment cleaners	2 809	2 384	425	2 046	265	44	90	25	31.2	45.8	67.8
Hand packers and packagers	12 331	3 797	8 534	2 903	566	1 302	496	26.3	38.3	52.7	56.4
Laborers, except construction	65 457	52 641	12 816	43 811	6 129	1 627	3 809	25	33.1	57.0	59.9

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States	Finance, insurance, and real estate, total												Percent self-employed					
	Race						Median age		Percent high school graduates		Percent completed 4 or more years of college							
	Total		White		Black													
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male			Female	Male	Female	
Employed persons 16 years and over	5 898 059	2 476 342	3 421 717	2 226 113	3 005 386	162 949	286 904	107 575	151 954	39.7	32.9	91.3	88.9	91.3	39.6	11.2	10.7	2.7
Managerial and professional specialty occupations	1 370 036	830 534	539 502	775 314	486 951	30 657	34 069	26 811	19 154	39.7	35.1	93.2	95.1	93.2	53.5	22.2	4.8	2.3
Executive, administrative, and managerial occupations	1 249 465	756 965	492 500	707 082	445 358	27 973	30 293	24 893	17 837	40.1	35.6	92.9	94.9	92.9	51.8	19.9	5.0	2.4
Officials and administrators, public administration	109	62	47	62	45	—	2	—	—	40.9	38.0	85.1	100.0	85.1	72.6	14.9	—	—
Financial managers	195 260	124 256	71 004	117 190	65 639	3 704	3 643	3 681	2 217	38.2	37.4	94.9	97.8	94.9	50.7	15.7	0.8	0.3
Managers, marketing, advertising, and public relations	52 323	44 985	7 338	43 381	7 058	1 005	191	843	221	40.9	36.0	96.7	96.7	97.1	31.5	31.5	4.7	—
Administrators, education and related fields	889	574	315	435	285	20	14	8	5	44.9	41.4	94.3	94.3	94.3	56.4	29.5	—	7.3
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	181 332	99 945	81 387	89 085	74 583	6 824	4 494	6 545	3 026	45.7	43.5	80.5	81.4	80.5	33.4	14.9	17.4	9.1
Managers and administrators, n.e.c.	364 009	240 459	123 550	228 443	113 817	6 658	6 679	6 324	3 721	42.8	37.5	94.2	95.6	94.2	52.6	19.4	5.3	2.3
Salaries	346 712	227 349	119 363	215 883	109 821	6 425	6 587	6 085	3 613	42.5	37.1	95.6	95.6	94.3	52.7	19.1	—	—
Self-employed	17 297	13 110	4 187	12 560	3 996	233	92	239	108	50.1	47.2	89.9	92.1	89.9	50.5	27.4	96.8	68.3
Management related occupations	455 543	246 684	208 859	228 372	183 931	9 762	15 270	7 492	8 647	35.7	32.7	98.0	98.0	96.2	59.6	23.1	1.8	0.4
Accountants and auditors	117 238	62 280	54 958	55 354	45 702	3 558	5 307	2 286	2 291	31.0	29.4	96.4	95.6	96.4	68.0	32.3	1.4	0.5
Personnel, training, and labor relations specialists	29 544	10 517	19 027	9 567	16 306	667	1 041	401	799	37.4	32.8	96.9	96.9	96.9	53.4	28.1	1.0	0.3
Buyers and purchasing agents	6 941	4 045	2 896	3 751	2 675	170	148	126	78	41.1	32.6	92.4	92.4	95.1	33.2	20.1	6.2	1.7
Inspectors and compliance officers	8 314	6 249	2 065	5 667	1 640	405	347	177	70	40.4	31.1	94.6	91.0	94.6	36.7	19.3	31.3	0.5
Other management related occupations	293 506	163 593	129 913	154 033	117 608	4 962	7 491	4 502	5 409	36.6	33.5	96.0	98.2	96.0	58.4	18.7	1.8	0.3
Professional specialty occupations	120 571	73 569	47 002	68 232	41 593	2 684	3 776	1 918	1 317	35.8	32.5	98.1	98.1	96.5	70.4	46.1	3.1	1.3
Engineers, architects, and surveyors	13 048	11 946	1 102	11 023	976	404	73	408	40	37.6	30.2	99.1	99.1	96.2	64.8	48.5	4.1	3.0
Architects	2 877	2 582	295	2 302	288	113	—	158	—	35.2	31.0	96.6	96.6	100.0	74.9	58.6	11.2	4.4
Engineers	9 832	9 033	799	8 392	680	291	73	250	40	38.6	29.8	96.3	98.7	96.3	63.6	45.3	1.6	2.5
Civil engineers	1 946	1 881	65	1 769	60	45	—	61	5	40.7	31.1	92.3	94.1	92.3	63.6	50.8	94.5	—
Electrical and electronic engineers	4 898	4 242	650	4 242	3 598	19	13	19	11	37.0	25.0	92.5	98.4	100.0	57.2	—	1.2	—
Industrial engineers	4 598	4 128	470	3 847	371	151	63	57	35	36.9	28.8	97.2	97.2	100.0	66.4	46.2	0.3	—
Mechanical engineers	897	881	16	843	16	21	—	54	—	35.6	30.0	92.3	92.3	100.0	38.4	62.5	0.6	—
Other engineers	1 851	1 645	206	1 468	191	55	10	58	—	42.5	32.8	97.6	97.9	97.6	71.9	49.5	4.7	9.7
Surveyors and mapping scientists	339	331	8	329	8	—	—	—	—	34.3	56.3	91.5	91.5	100.0	19.6	—	16.3	—
Computer systems analysts and scientists	18 051	11 633	6 418	10 761	5 568	395	520	259	255	33.5	31.7	97.2	99.0	97.2	52.0	46.0	0.8	0.8
Operations and systems researchers and analysts	9 794	6 564	4 700	5 945	4 249	291	328	228	87	34.6	31.7	99.0	99.0	97.6	57.7	48.2	0.3	1.4
Mathematical scientists	1 208	707	501	636	441	26	13	19	11	32.6	30.6	99.7	99.7	92.6	88.0	52.6	0.6	0.3
Natural scientists	208	217	191	195	151	7	13	19	11	38.3	32.8	98.0	98.0	94.4	68.2	29.3	5.7	2.8
Chemists, except biochemists	800	490	310	441	290	19	20	19	11	34.6	31.2	92.7	100.0	92.7	68.2	39.3	—	—
Other natural scientists	1 298	889	409	842	283	13	66	4	29	39.6	34.1	97.1	97.1	94.6	68.2	23.2	8.2	4.5
Health diagnosing occupations	5 253	4 474	4 779	4 288	4 380	22	273	71	35.8	39.9	92.4	97.0	97.0	97.0	94.6	49.9	12.5	8.3
Health assessment and treating occupations	4 486	1 633	4 323	1 555	3 976	8	233	69	69	34.1	40.4	98.8	98.8	98.8	64.3	31.8	4.9	1.7
Registered nurses	767	311	456	273	404	14	40	—	—	37.1	33.8	98.2	98.2	98.2	58.9	31.0	1.4	—
Other health assessment and treating occupations	2 114	1 189	925	1 100	795	67	113	21	17	34.6	34.8	90.8	89.4	90.8	67.2	38.8	7.4	3.9
Teachers, except postsecondary	14 164	8 952	5 212	8 250	4 814	279	216	269	132	37.0	31.2	97.8	99.4	97.8	79.6	55.8	3.6	0.5
Social scientists and urban planners	3 487	982	2 505	650	1 591	281	791	48	160	32.3	35.0	88.3	92.0	88.3	59.3	34.3	3.2	1.4
Lawyers and judges	16 159	13 197	2 962	12 839	2 689	285	188	173	73	38.9	31.9	98.9	98.9	98.9	96.9	72.0	4.5	1.3
Writers, artists, entertainers, and athletes	21 073	9 437	11 636	8 713	10 667	405	691	378	344	38.9	32.4	95.5	95.5	95.5	52.9	42.3	4.0	1.8
Other professional specialty occupations	3 658	1 382	2 276	1 217	1 968	121	238	57	44	39.1	34.6	95.2	94.4	95.2	58.4	42.4	5.1	1.1
Technical, sales, and administrative support occupations	4 115 381	1 327 364	2 788 017	1 211 458	2 450 500	73 640	231 510	46 411	125 521	39.5	32.2	93.3	93.3	92.2	39.1	9.3	16.3	2.8
Technicians and related support occupations	79 101	42 871	36 230	38 136	31 608	2 417	2 771	1 543	1 181	31.6	30.6	96.8	96.8	95.4	40.5	28.7	3.4	2.7
Health technologists and technicians	1 656	804	852	1 060	755	4	158	6	40	31.9	33.0	95.8	95.8	90.1	49.0	13.6	—	3.1
Licensed practical nurses	756	67	689	53	485	—	105	—	23	31.9	34.7	100.0	100.0	87.8	43.3	4.2	—	5.7
Other health technologists and technicians	900	337	563	299	485	4	53	6	17	31.8	31.0	92.9	95.0	92.9	50.1	25.0	—	—
Engineering and science technicians	6 974	4 409	2 565	3 819	2 127	374	305	285	171	32.3	30.6	91.2	91.2	93.5	28.8	19.8	3.2	0.7
Electrical and electronic technicians	2 252	1 426	826	1 197	668	143	134	89	26	31.4	30.2	94.2	94.2	92.4	18.3	8.8	1.4	—
Industrial and mechanical engineering technicians	266	115	151	111	137	6	12	—	6	31.8	28.3	87.8	87.8	100.0	52.2	43.0	—	—
Drafting and surveying technicians	2 507	1 829	678	1 556	558	167	165	128	71	31.6	29.9	86.3	86.3	92.0	23.2	26.7	2.0	1.0
Other engineering and science technicians	1 949	1 039	910	955	764	64	94	68	68	35.3	31.7	95.8	95.8	94.5	50.3	20.8	8.0	1.2
Technicians, except health, engineering, and science	70 471	38 058	32 413	33 965	28 421	2 039	2 308	1 252	970	31.5	30.5	95.8	97.5	95.8	41.8	30.0	3.5	2.8
Airplane pilots and navigators	592	584	8	567	8	5	—	5	—	39.0	28.3	96.9	100.0	96.9	29.5	25.0	—	—
Air traffic controllers and broadcast equipment operators	472	185	287	174	237	5	34	9	27	31.2	29.1	89.9	95.1	89.9	51.4	8.4	—	—
Computer programmers	39 749	25 213	14 536	22 182	12 316	1 467	1 194	820	372	30.6	29.5	98.5	98.5	94.2	44.4	18.7	0.5	0.4
Other technicians, except health, engineering, and science	29 658	12 076	17 582	11 042	15 860	562	1 080	418	571	34.0	31.8	94.2	95.3	94.2	46.8	14.7	9.9	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States	Finance, insurance, and real estate, total																	
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed					
	Total		White		Black		Male		Female		Male		Female		Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con																		
Technical, sales, and administrative support occupations—Con																		
Sales occupations	1 388 853	898 434	490 419	853 281	459 506	27 550	19 970	20 345	13 143	42.9	39.8	94.3	93.5	43.4	20.1	23.3	14.1	
Supervisors and proprietors, sales occupations	25 828	20 836	4 992	20 130	4 661	346	218	440	97	42.3	35.4	94.0	96.0	56.4	27.1	22.9	11.6	
Salaries	20 275	15 922	4 353	15 352	4 043	293	218	359	97	40.7	34.0	92.1	96.1	56.3	26.1	21.7	10.5	
Self-employed, finance and business services	5 553	4 914	639	4 778	618	53	—	81	—	48.4	49.0	92.1	95.0	56.8	33.6	97.3	90.5	
Sales representatives, commodities, except retail	1 315 666	865 001	450 665	821 527	424 303	26 564	16 838	19 425	11 139	43.0	40.2	94.3	93.9	43.3	21.1	23.6	15.1	
Sales clerks, retail and personal services	44 647	10 396	34 251	9 512	30 068	585	2 897	458	1 890	40.4	32.9	98.7	96.5	48.4	20.3	9.5	23.0	
Other sales occupations, retail and personal services	30 816	3 880	26 936	3 345	23 405	328	2 470	290	1 604	34.3	32.2	91.3	89.3	24.9	4.3	8.9	1.4	
Sales related occupations	13 831	6 516	7 315	6 167	6 463	257	427	168	286	43.9	36.2	85.2	83.8	30.0	13.3	13.2	5.9	
Administrative support occupations, including clerical	2 647 427	386 059	2 261 368	320 041	1 959 386	43 673	208 769	24 523	11 197	32.1	30.7	90.7	91.8	29.1	6.7	1.4	0.3	
Supervisors, administrative support occupations	175 156	66 374	108 782	59 595	95 666	4 514	9 333	2 941	4 663	38.0	34.8	95.6	94.1	40.7	10.4	0.7	0.2	
Computer equipment operators	63 660	27 178	36 482	21 091	28 834	4 081	5 528	2 189	2 154	28.6	28.3	95.2	91.9	14.7	7.4	0.3	0.1	
Secretaries, stenographers, and typists	648 523	4 908	528 266	4 300	490 731	375	39 896	414	28 203	33.7	31.6	87.0	93.7	25.3	6.0	1.4	0.5	
Stenographers and typists	115 349	1 753	113 596	1 122	90 692	126	17 047	205	20 950	32.1	28.4	87.8	94.5	28.4	6.6	1.3	0.5	
Receptionists	39 125	913	38 212	729	33 807	126	2 974	57	2 176	33.2	28.3	84.7	89.8	16.5	3.3	1.8	0.3	
Other information clerks	40 940	6 868	34 072	5 823	29 257	681	3 316	322	1 759	31.6	29.9	92.7	91.9	35.6	7.9	0.9	0.4	
File clerks	60 033	5 557	54 476	3 757	42 153	1 277	9 255	468	3 585	25—	25—	75.8	77.6	11.2	2.9	0.5	0.1	
Other records processing occupations, except financial	77 784	13 041	64 743	10 873	54 306	1 462	7 564	757	3 201	32.2	30.4	88.8	91.6	26.8	7.8	0.8	0.2	
Bookkeepers, accounting, and auditing clerks	257 397	25 507	231 890	20 676	206 805	2 908	16 377	1 707	9 900	31.1	32.8	92.1	91.9	24.4	6.4	1.6	0.8	
Payroll and timekeeping clerks	8 193	785	7 408	526	6 206	128	788	49	374	29.4	32.9	90.3	93.0	12.7	6.4	—	0.1	
Other financial records processing occupations	72 131	6 694	65 437	5 011	54 790	1 012	7 231	674	3 156	27.7	27.9	89.6	91.5	22.7	5.0	0.9	0.1	
Telephone operators	14 342	600	13 742	420	11 971	191	1 446	—	603	28.7	40.7	83.3	81.1	18.3	2.5	1.0	0.2	
Mail and message distributing occupations	44 890	27 616	17 274	20 345	13 342	5 745	3 096	2 291	930	30.9	25.5	69.6	78.8	5.3	3.1	0.6	0.3	
Production coordinators and expeditors	13 521	3 779	11 542	2 898	8 649	689	2 051	336	805	32.9	31.3	91.7	88.9	22.7	6.7	1.3	0.1	
Traffic, shipping, and receiving clerks	3 716	2 272	1 444	1 502	1 170	618	185	243	160	30.1	29.5	73.2	86.1	8.5	7.7	0.6	0.2	
Stock and inventory clerks	9 706	5 436	3 270	4 166	2 671	911	439	353	170	33.5	28.6	80.6	83.4	8.2	7.3	0.8	0.2	
Other material recording, scheduling, and distributing clerks	38 642	87 344	151 333	80 048	126 413	4 761	18 407	2 817	6 724	33.5	28.6	77.3	89.9	19.2	5.5	2.7	0.2	
Adjusters and investigators	238 897	4 355	40 166	2 441	42 160	4 995	13 182	508	4 309	34.8	30.9	96.2	94.6	47.9	14.1	3.7	0.2	
Data-entry keyers	64 201	8 410	55 791	7 579	61 748	12 487	48 951	8 100	38 176	26.8	28.7	90.1	90.1	13.7	3.7	1.0	0.2	
Other administrative support occupations	81 270	93 672	716 598	73 579	617 448	12 487	66 871	8 100	38 176	27.2	29.7	89.1	91.3	20.5	5.9	1.2	0.2	
Service occupations	246 670	176 270	70 400	126 481	48 532	37 414	17 866	21 100	6 096	44.1	45.9	50.8	44.3	4.6	2.5	1.9	1.7	
Private household occupations	35 394	32 336	3 058	25 170	2 311	5 744	—	—	—	—	—	—	—	—	—	—	—	
Protective service occupations	33 525	30 623	2 902	23 740	2 193	5 497	594	2 343	143	52.1	32.9	64.3	73.2	7.7	6.9	0.5	0.2	
Guards	1 869	1 713	156	1 430	118	247	30	31	16	47.0	33.8	83.8	78.2	18.2	9.6	0.7	3.8	
Other protective service occupations	211 276	143 934	67 342	101 311	46 221	31 670	17 242	18 726	5 953	42.0	46.3	47.7	43.0	3.9	2.3	2.2	1.7	
Food preparation and service occupations	11 057	3 416	7 641	2 189	5 751	790	1 517	534	461	31.0	47.3	49.2	51.8	6.4	3.1	0.4	0.3	
Health service occupations	2 201	249	1 952	194	1 222	55	619	7	147	31.1	61.9	75.5	69.2	21.7	9.4	—	1.0	
Cleaning and building service occupations, except household	185 482	132 478	53 004	93 603	35 845	29 244	14 002	16 530	4 921	41.9	46.8	47.6	39.3	3.7	1.6	2.3	1.9	
Personal service occupations	12 536	7 791	4 745	5 325	3 403	1 581	1 104	1 655	424	48.6	41.3	49.1	59.3	7.3	5.4	1.2	2.2	
Farming, forestry, and fishing occupations	30 974	29 412	1 562	23 611	1 363	3 510	158	3 279	54	37.5	30.9	45.7	61.5	3.3	8.3	2.1	2.8	
Precision production, craft, and repair occupations	77 105	69 194	7 911	56 879	6 905	9 326	762	5 121	483	38.7	34.6	65.9	84.1	8.5	10.7	5.6	4.5	
Mechanics and repairers	18 317	17 296	1 021	14 361	845	2 128	121	323	77	36.6	32.3	66.7	86.9	4.5	12.0	3.4	4.1	
Supervisors, mechanics and repairers	1 351	1 222	129	1 033	99	144	18	65	8	43.6	36.2	73.8	93.8	8.1	18.6	1.8	—	
Automobile mechanics, including body	1 373	1 330	43	1 123	43	158	—	77	—	35.2	26.3	62.6	88.4	2.8	32.6	6.8	—	
Industrial machinery repairers	3 565	3 406	159	2 831	134	419	9	252	24	34.8	31.6	61.5	61.6	2.3	10.1	1.9	—	
Electronic repairers, communications and industrial equipment	327	281	46	263	40	12	6	6	—	34.9	33.2	93.2	100.0	13.5	10.9	12.8	—	
Heating, air conditioning, and refrigeration mechanics	2 125	2 104	21	1 804	21	213	—	176	—	34.8	65+	73.2	61.9	2.2	—	0.8	—	
Other mechanics and repairers	9 576	8 953	623	7 307	508	1 182	88	747	45	36.8	32.0	65.9	91.7	5.3	10.3	4.0	6.7	
Construction trades	39 871	37 781	2 090	30 573	1 790	5 479	222	2 986	101	38.4	34.1	61.0	73.4	7.4	13.3	8.0	11.0	
Supervisors, construction occupations	7 633	7 137	496	6 325	459	638	14	295	36	42.1	34.8	76.2	96.2	18.1	20.6	7.2	7.5	
Carpenters	10 782	10 472	310	8 909	226	1 234	84	541	7	38.4	32.5	61.8	56.8	7.8	11.6	10.4	11.0	
Electricians	2 861	2 762	99	2 358	80	303	13	197	—	40.7	26.3	74.3	100.0	1.4	5.1	4.4	—	
Painters, construction and maintenance	12 694	11 737	957	9 066	844	1 944	64	1 345	49	34.3	34.9	51.9	61.4	4.3	9.9	7.6	13.4	
Plumbers, pipefitters, and steamfitters	3 711	3 672	39	2 500	36	862	3	448	—	41.7	36.1	55.9	76.9	3.7	12.8	11.0	17.9	
Other construction trades	2 190	2 001	189	1 415	145	498	44	160	9	34.4	25—	47.6	87.3	1.4	18.5	11.0	12.7	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Finance, insurance, and real estate, total																	
United States	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed				
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female			
	Male	Female	Male	Female	Male	Female											
Employed persons 16 years and over—Con.																	
Precision production, craft, and repair occupations—Con.																	
Extracraft occupations	164	142	22	136	22	4	—	3	—	41.1	30.7	79.6	100.0	21.8	—	28.9	—
Precision production occupations	18 753	13 975	4 778	11 809	4 248	1 715	419	809	305	41.2	35.5	77.9	88.0	16.4	9.4	1.7	1.7
Supervisors, production occupations	10 400	6 278	4 122	5 452	3 730	650	322	325	233	40.2	36.3	87.7	90.3	29.0	15.3	2.7	2.0
Precision metalworking occupations	822	750	72	616	51	75	14	111	7	38.7	27.9	60.9	100.0	3.3	100.0	0.1	—
Tool and die makers	28	22	6	22	6	—	—	—	—	30.0	30.0	100.0	100.0	—	—	—	—
Machinists	406	363	43	303	27	42	9	34	7	32.6	26.7	67.2	100.0	3.3	—	—	—
Sheet metal workers	60	48	12	38	12	—	—	—	—	26.5	30.0	79.2	100.0	14.6	—	2.1	—
Other precision metal workers	328	317	11	253	6	24	5	68	—	43.5	25.8	48.3	100.0	1.9	45.5	—	—
Precision textile, apparel, and furnishings machine workers	157	137	20	117	34	31	22	20	13	40.8	42.7	39.6	77.9	7.3	—	5.2	—
Precision food production occupations	204	160	44	123	44	35	14	18	19	39.5	31.1	68.7	80.3	6.5	10.5	—	—
Precision inspectors, testers, and related workers	6 298	6 178	120	5 162	98	818	22	307	—	42.9	35.7	75.0	95.5	17.5	—	2.5	—
Plant and system operators	458	251	207	182	174	69	25	12	33	38.4	30.9	64.5	64.7	6.2	14.2	0.5	—
Other precision production occupations																	
Operators, fabricators, and laborers	57 893	43 568	14 325	32 370	11 135	8 402	2 539	4 853	646	34.8	31.1	57.6	79.4	5.3	5.6	2.6	1.3
Machine operators, assemblers, and inspectors	22 707	12 789	9 918	9 360	7 817	2 093	1 594	1 247	486	33.2	30.1	73.9	84.0	8.4	6.0	2.4	0.9
Machine operators and tenders, except precision	18 530	10 331	8 199	7 453	6 576	2 099	1 219	1 065	411	33.2	29.9	73.5	83.9	6.4	6.0	2.2	0.8
Metalworking and plastic working machine operators	480	202	278	124	218	58	51	21	10	39.3	26.9	57.4	68.7	7.9	4.3	1.5	1.8
Fabricating machine operators, n.e.c.	21	6	15	6	9	—	—	—	—	60.0	46.7	—	40.0	—	—	—	—
Metal and plastic processing and woodworking machine operators	440	246	194	163	188	70	6	33	13	30.7	31.1	82.9	90.7	6.9	5.2	2.8	3.1
Printing machine operators	6 516	4 388	2 128	3 213	1 765	821	273	415	100	31.7	30.3	82.7	85.9	3.5	6.2	0.5	0.5
Textile machine operators	140	77	63	59	53	12	—	14	6	40.0	28.8	100.0	90.5	23.4	15.9	24.7	—
Textile sewing machine operators	127	6	121	6	94	—	—	—	28	50.0	40.6	100.0	56.2	100.0	6.6	—	—
Laundry and dry cleaning machine operators	332	124	208	82	130	35	46	7	24	32.1	46.4	39.5	51.0	—	5.8	4.8	5.3
Packaging and filling machine operators	1 033	54	49	34	49	—	—	—	—	28.3	25	63.0	93.9	37.0	8.2	35.2	8.2
Furnace, kiln, and oven operators, except food	1 252	1 222	30	738	30	376	—	217	—	45.8	27.0	57.9	83.3	1.3	7.2	0.8	—
Other specified machine operators	3 877	1 581	2 296	1 304	223	202	231	120	61	30.4	30.3	65.5	83.4	9.2	7.2	6.5	1.6
Miscellaneous and not specified machine operators	5 932	2 425	3 507	1 699	2 736	504	595	238	169	33.1	28.9	71.6	86.6	10.9	5.4	1.6	0.1
Fabricators, assemblers, and hand working occupations	1 857	1 012	845	746	656	182	150	139	31	33.0	30.2	70.2	84.1	12.1	6.6	3.2	1.7
Welders and cutters	463	354	109	271	83	19	21	78	—	34.1	30.4	69.2	87.2	3.7	—	2.3	—
Solders and brazers	42	17	25	6	25	—	—	—	—	30.0	25.7	100.0	76.0	—	24.0	—	—
Assemblers	906	419	487	320	377	94	76	41	31	31.6	30.1	68.3	79.9	13.1	5.7	3.1	0.6
Hand working occupations	2 320	1 246	1 074	1 497	553	202	53	20	30.6	34.4	30.6	73.0	92.9	24.3	9.8	5.0	4.9
Production inspectors, testers, samplers, and weighers	446	222	224	1 61	585	202	225	43	44	33.6	31.7	79.8	84.9	20.1	5.9	3.2	1.7
Graders and sorters, except agricultural	812	329	483	192	345	96	101	26	32	25	29.1	79.0	83.9	8.2	3.5	—	—
Other production inspectors, testers, samplers, and weighers	1 508	1 117	391	969	240	106	124	17	12	37.8	35.1	80.0	86.2	23.5	9.0	4.1	3.8
Fabricators, assemblers, and hand working occupations																	
Transportation and material moving occupations	13 377	11 896	1 481	8 922	1 182	2 339	257	977	46	41.1	34.3	57.0	79.7	3.7	3.6	2.9	2.8
Transportation occupations	10 479	9 548	895	7 041	667	2 030	191	843	41	42.7	33.3	57.8	71.5	3.5	2.9	2.5	4.1
Motor vehicle operators	10 305	9 484	857	6 913	649	2 022	171	843	41	42.8	33.6	57.4	71.5	3.1	3.0	2.5	4.3
Truck drivers	5 121	4 667	454	3 488	376	935	52	480	35	35.0	30.0	60.2	73.1	2.5	4.4	4.7	3.5
Divers-sales workers	299	275	24	238	6	26	12	11	—	34.5	45.0	74.2	100.0	5.5	—	25.0	—
Other motor vehicle operators	4 885	4 506	379	3 187	267	1 061	107	352	6	55.7	38.0	53.4	67.0	3.6	1.6	0.5	4.0
Rail and water transportation occupations	2 898	2 312	586	1 881	128	309	66	134	5	34.1	30.5	83.8	78.9	27.2	4.7	—	—
Material moving equipment operators	107	73	34	66	29	7	5	—	—	33.3	29.4	43.0	100.0	11.0	—	4.5	0.9
Supervisors, material moving equipment operators	156	149	7	91	66	50	5	34	—	40.4	40.0	50.3	80.0	5.3	—	8.7	—
Crane, hoist and winch operators	889	874	15	774	15	57	—	8	—	37.3	42.5	48.2	100.0	—	—	5.4	—
Excavating, grading, and dozer machine operators	1 746	1 216	530	950	464	195	61	92	5	36.3	35.8	57.8	91.9	4.5	5.3	3.6	0.9
Other material moving equipment operators																	
Handlers, equipment cleaners, helpers, and laborers	21 809	18 883	2 926	14 088	2 136	3 580	688	2 629	114	33.6	33.8	46.9	63.8	4.3	5.3	2.5	1.6
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	333	228	105	180	96	48	9	—	—	44.2	36.8	75.4	70.5	10.1	16.2	—	6.7
Helpers, craft and production	906	784	122	626	95	106	52	124	5	29.1	30.6	35.7	69.7	1.3	11.5	—	—
Construction laborers	2 343	1 658	58	1 485	51	272	7	230	30	32.4	47.0	59.3	60.3	9.6	15.5	—	—
Freight, stock, and material handlers	592	542	50	325	32	179	6	78	11	37.8	29.3	49.6	84.0	4.4	24.0	1.8	—
Garage and service station occupations, and equipment cleaners	435	165	270	122	134	30	124	31	16	31.3	37.1	54.5	67.0	3.6	—	—	—
Hand packers and packagers	15 284	13 510	1 774	10 017	1 336	2 583	372	1 991	65	35.2	34.8	44.0	59.0	3.5	4.1	3.2	2.0
Laborers, except construction																	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States													
Banking and credit agencies													
Race													
Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years at college	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
2 221 438	681 228	1 540 210	598 934	1 336 017	51 702	136 236	33 421	81 464	35.3	31.1	40.9	8.7	0.8
Employed persons 16 years and over													
671 680	401 108	270 572	375 592	243 946	13 179	16 348	12 487	10 867	37.6	34.3	54.4	20.9	0.8
Executive, administrative, and managerial occupations	634 798	379 389	255 409	355 938	12 290	15 416	11 582	10 368	37.7	34.4	53.6	19.4	0.8
Officials and administrators, public administration	31	27	4	27	4	4	—	—	39.2	35.0	39.4	—	—
Financial managers	179 340	112 724	66 616	106 314	3 444	3 463	3 499	2 119	38.1	37.6	48.5	14.5	0.5
Managers, marketing, advertising, and public relations	6 907	5 322	1 585	5 142	110	52	107	44	38.4	32.4	58.0	40.3	0.9
Administrators, education and related fields	370	238	132	238	—	7	8	—	42.9	39.3	66.0	23.5	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	10 943	5 939	5 004	5 445	369	282	227	228	38.9	35.9	56.2	28.8	0.9
Managers and administrators, n.e.c.	114 388	75 655	38 733	71 657	2 137	2 280	2 077	1 589	40.7	36.0	50.4	17.9	1.1
Salaries	113 392	74 803	38 589	70 818	2 129	2 280	2 057	1 583	40.6	35.9	50.4	17.9	1.1
Self-employed	996	852	144	839	8	—	20	6	50.4	48.0	48.0	18.8	96.8
Management related occupations	322 819	179 484	143 335	167 135	6 230	9 332	5 664	6 383	35.7	33.1	57.9	21.5	0.8
Accountants and auditors	58 060	30 633	27 427	26 938	1 847	2 699	1 344	1 312	32.6	30.8	65.4	32.4	0.5
Personnel, training, and labor relations specialists	13 931	4 019	9 912	3 582	254	912	191	503	34.9	32.8	52.2	28.6	0.3
Buyers and purchasing agents	2 989	1 753	1 236	1 648	55	52	50	63	42.7	34.2	26.3	14.2	0.7
Inspectors and compliance officers	1 389	1 095	294	1 006	51	53	31	6	40.6	29.4	47.1	43.9	0.2
Other management related occupations	246 450	141 984	104 466	133 961	4 023	5 603	4 048	4 499	36.6	33.8	56.9	18.0	0.9
Professional specialty occupations	36 882	21 719	15 163	19 634	889	932	905	499	35.8	32.0	68.6	46.8	1.3
Engineers, architects, and surveyors	1 612	1 403	209	1 178	84	23	120	183	34.6	31.8	69.1	29.2	1.0
Architects	430	367	63	315	19	—	—	—	35.0	30.1	100.0	27.0	—
Engineers	1 161	1 021	140	848	65	23	84	—	35.0	32.3	63.6	31.4	0.8
Civil engineers	174	169	5	153	5	—	14	—	47.8	50.0	93.5	—	4.7
Electrical and electronic engineers	157	157	—	152	—	—	—	—	33.5	—	100.0	70.1	—
Industrial engineers	410	324	86	218	31	23	30	—	31.6	31.3	65.1	37.2	—
Mechanical engineers	116	116	—	103	8	—	—	—	39.8	—	14.7	—	—
Other engineers	304	255	49	222	21	—	30	—	38.3	34.2	70.2	24.5	—
Surveyors and mapping scientists	21	15	6	15	—	—	—	—	25	60.0	26.7	—	40.0
Computer systems analysts and scientists	7 226	4 841	2 385	4 363	199	172	104	126	33.1	31.3	52.9	51.4	0.8
Operations and systems researchers and analysts	4 598	2 793	1 805	2 447	154	76	140	41	33.9	31.0	53.8	53.8	0.4
Mathematical scientists	725	725	—	725	21	40	12	—	37.1	32.0	73.8	37.2	2.2
Natural scientists	356	199	157	356	15	15	19	—	39.0	35.1	86.0	24.9	3.0
Chemist/biochemist	104	57	47	104	7	8	—	—	30.4	42.5	63.2	27.7	—
Other natural scientists	252	142	110	252	8	—	19	—	45.4	44.4	70.2	27.7	4.2
Health diagnosing occupations	164	107	57	93	8	—	13	—	36.8	44.4	100.0	42.1	6.5
Health assessment and treating occupations	931	100	831	87	8	—	23	—	42.0	40.3	52.0	25.3	—
Registered nurses	812	54	758	46	8	—	23	—	35.0	42.0	37.0	23.1	—
Other health assessment and treating occupations	119	46	73	41	—	—	—	—	46.1	32.4	69.6	47.9	9.6
Teachers, except postsecondary	1 063	672	391	631	30	21	19	—	34.7	34.6	81.5	32.2	2.3
Social scientists and urban planners	7 079	4 419	2 660	3 937	148	78	201	63	37.4	31.0	98.9	87.4	1.3
Social and recreation workers	599	137	462	118	10	408	27	—	31.2	30.6	82.5	21.6	1.5
Lawyers and judges	3 740	2 987	753	2 911	57	30	93	40	36.9	30.5	99.3	98.9	3.1
Writers, artists, entertainers, and athletes	7 787	3 434	4 353	3 147	151	290	184	137	44.0	33.3	96.4	40.1	1.6
Other professional specialty occupations	1 002	352	650	331	12	99	25	12	38.2	33.6	52.3	41.5	1.7
Technical, sales, and administrative support occupations	1 465 963	225 670	1 240 293	182 722	1 070 707	27 402	113 122	68 743	30.5	29.9	25.3	6.1	0.7
Technicians and related support occupations	22 838	13 563	9 275	11 485	7 599	905	506	347	31.2	30.1	38.7	35.8	0.7
Health technicians and technicians	458	111	347	97	48	—	—	—	32.2	31.7	84.7	16.7	—
Licensed practical nurses	199	33	166	19	132	—	—	—	32.5	37.4	100.0	28.8	—
Other health technicians and technicians	259	78	181	78	153	—	—	—	32.0	26.8	33.3	26.0	8.4
Engineering and science technicians	1 768	1 177	591	986	520	64	76	41	30.7	31.7	27.4	29.6	—
Electrical and electronic technicians	895	539	239	543	219	15	33	—	34.7	34.4	100.0	18.8	—
Industrial and mechanical technicians	101	31	70	31	56	—	6	—	48.2	29.7	19.4	50.0	—
Drafting and surveying technicians	385	262	123	195	99	39	32	20	28.9	28.2	93.5	48.0	—
Other engineering and science technicians	387	228	159	217	146	11	15	13	31.4	34.9	100.0	29.6	—
Technicians, except health, engineering, and science	20 612	12 275	8 337	10 602	6 794	785	430	295	31.2	30.0	39.9	37.0	0.8
Airplane pilots and navigators	182	176	6	164	6	—	5	—	43.4	30.0	90.9	100.0	—
Air traffic controllers and broadcast equipment operators	89	58	31	64	21	—	—	—	31.9	45.7	100.0	53.4	—
Computer programmers	16 171	10 632	5 539	9 267	4 609	616	359	166	31.0	29.9	96.7	42.9	0.4
Other technicians, except health, engineering, and science	4 170	1 409	2 761	1 122	2 158	164	66	129	32.7	30.3	40.5	25.7	2.1

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Banking and credit agencies																	
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed					
	Total		White		Black		Male		Female		Male		Female		Male		Female	
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over—Con.																		
Technical, sales, and administrative support occupations—Con.																		
Sales occupations																		
Supervisors and proprietors, sales occupations																		
Salaries																		
Self-employed																		
Sales representatives, finance and business services																		
Sales representatives, commodities, except retail																		
Sales workers, retail and personal services																		
Cashiers																		
Other sales occupations, retail and personal services																		
Sales related occupations																		
Administrative support occupations, including clerical																		
Supervisors, administrative support occupations																		
Computer equipment operators																		
Secretaries, stenographers, and typists																		
Secretaries																		
Stenographers and typists																		
Receptionists																		
Other information clerks																		
File clerks																		
Other records processing occupations, except financial																		
Bookkeepers, accounting, and auditing clerks																		
Payroll and timekeeping clerks																		
Other financial records processing occupations																		
Telephone operators																		
Mail and message distributing occupations																		
Production coordinators and expeditors																		
Traffic, shipping, and receiving clerks																		
Stock and inventory clerks																		
Other material receiving, scheduling, and distributing clerks																		
Adjusters and investigators																		
Data-entry keyers																		
Other administrative support occupations																		
Service occupations																		
Private household occupations																		
Protective service occupations																		
Guards																		
Other protective service occupations																		
Food preparation and service occupations																		
Food service occupations																		
Cleaning and building service occupations, except household																		
Personal service occupations																		
Farming, forestry, and fishing occupations																		
Precision production, craft, and repair occupations																		
Mechanics and repairers																		
Supervisors, mechanics and repairers																		
Automotive mechanics, including body																		
Industrial machinery repairers																		
Electronic repairers, communications and industrial equipment																		
Heating, air conditioning, and refrigeration mechanics																		
Other mechanics and repairers																		
Construction trades																		
Supervisors, construction occupations																		
Carpenters																		
Electricians																		
Painters, construction and maintenance																		
Plumbers, pipefitters, and steamfitters																		
Other construction trades																		

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																
Banking and credit agencies																
			Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
Total			White		Black		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female										
Employed persons 16 years and over—Con.																
Precision production, craft, and repair occupations—Con																
Extraneous occupations	30	10	20	10	—	—	—	—	32.7	27.9	100.0	100.0	—	—	—	—
Precision production occupations	4 789	2 742	2 352	1 880	273	127	183	130	40.4	36.0	85.7	90.5	21.3	5.3	0.9	—
Supervisors, production occupations	3 387	1 603	1 784	1 662	141	94	101	117	37.5	37.0	94.6	91.3	31.0	5.8	1.6	—
Precision metalworking occupations	175	143	116	20	9	5	18	—	32.8	29.3	76.9	100.0	4.9	15.6	—	—
Tool and die makers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Machinists	144	20	97	13	9	—	18	—	32.7	30.7	79.0	100.0	—	—	—	—
Other metal workers	15	7	8	—	—	—	—	—	31.7	30.0	75.0	100.0	5.6	—	—	—
Precision metal, wood, and furnishings machine workers	16	5	11	—	—	—	—	—	34.2	25	54.5	100.0	—	100.0	—	—
Precision food, apparel, and textiles machine workers	15	10	5	3	—	—	—	—	50.0	32.1	—	—	—	—	—	—
Precision food production occupations	131	69	62	55	14	7	—	6	45.4	27.0	89.9	75.8	8.7	—	—	—
Precision inspectors, testers, and related workers	80	44	36	36	7	—	—	—	37.5	29.3	100.0	94.4	29.5	—	—	—
Plant and system operators	914	847	707	61	102	6	52	—	46.7	35.3	71.1	91.0	6.8	—	—	—
Other precision production occupations	87	31	31	48	—	8	12	7	38.4	29.3	54.8	71.4	12.9	—	—	—
Operators, fabricators, and laborers	16 083	10 157	5 926	4 480	2 145	1 131	957	286	36.2	30.9	65.9	81.0	5.7	4.2	1.2	0.4
Machine operators, assemblers, and inspectors	7 698	4 219	2 454	3 128	740	823	254	222	31.3	29.7	81.5	83.1	7.6	4.8	0.3	0.3
Machine operators and tenders, except precision	6 334	3 433	2 082	2 590	575	623	221	184	32.2	29.7	81.4	82.6	7.0	5.1	0.3	0.4
Metalworking and plastic working machine operators	234	160	48	115	16	40	17	6	25.0	29.6	85.1	62.5	9.5	7.5	—	3.1
Fabricating machine operators, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Metal and plastic processing and woodworking machine operators	82	22	33	16	21	6	4	6	41.2	25.8	83.3	100.0	—	—	—	—
Printing machine operators	2 396	1 542	1 086	648	337	152	119	26	33.4	29.6	83.1	82.9	5.3	4.1	—	0.7
Textile machine operators	50	21	21	29	—	—	14	—	42.9	36.9	100.0	100.0	33.3	13.8	—	—
Textile sewing machine operators	34	—	—	28	—	—	—	9	—	32.3	—	44.1	—	—	—	—
Laundry and dry cleaning machine operators	31	31	—	31	—	—	—	—	25	25.0	100.0	50.0	16.7	—	—	—
Packaging and filling machine operators	12	6	6	—	—	—	—	—	55.0	—	81.3	—	—	—	—	—
Furnace, kiln, and oven operators, except food	48	48	41	—	45	69	13	—	26.7	28.9	77.8	84.7	4.7	7.0	20.8	—
Other specified machine operators	947	379	568	334	471	1 246	54	109	32.3	29.8	78.7	84.8	11.5	4.8	—	0.1
Miscellaneous	2 500	1 729	513	1 246	156	356	—	—	—	—	—	—	—	—	—	—
Fabricators, assemblers, and hand working occupations	534	190	344	122	251	68	16	8	33.5	31.0	77.4	84.9	11.1	3.2	—	—
Welders and cutters	138	44	94	68	11	21	12	—	40.3	28.3	65.9	85.1	—	—	—	—
Solders and brazers	23	17	6	6	—	—	—	—	30.0	25	100.0	100.0	—	—	—	—
Assemblers	188	78	110	83	34	19	4	8	29.0	32.8	64.1	80.0	12.8	—	—	—
Hand working occupations	185	51	134	28	94	23	40	—	31.2	31.1	100.0	88.1	21.6	8.2	—	—
Production inspectors, testers, samplers, and weighers	830	388	442	250	287	97	120	17	30	25	83.8	85.3	10.8	3.8	—	—
Graders and sorters, except agricultural	613	258	355	150	235	73	89	17	26	25	85.3	87.0	5.8	4.8	—	—
Other production inspectors, testers, samplers, and weighers	217	130	87	100	24	31	—	4	32.6	37.4	80.8	78.2	20.8	—	—	—
Transportation and material moving occupations	5 633	4 823	3 601	712	977	93	459	12	46.0	35.5	58.4	82.5	4.0	2.8	1.8	1.1
Transportation occupations	4 890	4 560	3 395	276	942	54	431	7	46.9	32.9	57.8	66.7	3.8	2.4	2.0	2.7
Motor vehicle operators	4 839	4 538	3 381	258	934	43	431	7	47.0	33.2	57.6	66.1	3.8	2.7	2.0	3.0
Truck drivers	2 013	1 881	1 385	115	385	17	213	7	34.0	32.4	63.7	80.3	3.1	1.5	4.0	6.8
Driver-sales workers	155	155	149	—	6	—	—	—	32.7	—	83.9	—	3.2	—	—	—
Other motor vehicle operators	2 671	2 502	1 847	143	543	26	218	—	58.7	34.4	51.4	55.0	4.4	3.6	0.6	—
Rail and water transportation occupations	51	22	14	18	8	11	—	—	40.0	30.9	100.0	72.4	—	—	—	—
Material moving equipment operators	743	263	206	436	35	39	28	5	37.5	37.8	68.8	93.3	8.7	3.1	—	—
Supervisors, material moving equipment operators	45	31	24	9	7	5	—	—	55.9	27.2	54.8	100.0	—	—	—	—
Crane, hoist and winch operators	23	16	6	7	2	—	8	—	52.5	40.0	—	100.0	—	—	—	—
Excavating, grading, and dozer machine operators	25	25	—	—	—	—	—	—	33.3	—	64.0	—	32.0	—	—	—
Other material moving equipment operators	650	191	151	420	26	34	20	5	35.3	38.6	77.5	93.0	7.9	3.3	—	—
Handlers, equipment cleaners, helpers, and laborers	2 752	1 855	1 339	640	428	215	244	52	33.4	34.0	56.1	69.9	6.6	2.8	1.0	0.4
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	117	80	37	33	9	4	—	—	40.3	37.8	100.0	70.3	18.8	—	—	—
Helpers, craft and production	118	81	37	66	10	8	4	5	32.2	34.2	40.7	86.5	11.1	—	—	—
Construction laborers	130	83	5	—	—	—	—	—	46.3	50.0	44.8	100.0	16.8	5.9	2.5	—
Freight, stock, and material handlers	721	435	327	220	92	59	46	17	25	29.8	58.4	70.3	2.5	—	—	—
Garage and service station occupations, and equipment cleaners	184	167	79	5	78	6	18	5	28.2	30.8	62.9	100.0	—	—	—	—
Hand packers and packagers	200	47	32	70	15	76	—	—	25	36.7	57.4	66.0	—	—	—	—
Laborers, except construction	1 282	920	681	283	183	62	162	14	41.6	35.9	52.8	67.7	7.2	0.6	0.9	1.1

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.
 [Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																		
Employed persons 16 years and over																		
Race						Insurance				Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
Total			White			Black			Spanish origin¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1 904 554	823 741	1 080 813	762 962	937 289	40 989	105 520	21 259	41 598	39.8	31.8	94.4	92.2	44.4	11.0	10.7	1.0		
326 694	204 878	121 816	194 396	108 743	6 579	9 217	3 257	3 259	40.5	33.5	97.7	96.4	59.6	26.4	2.7	0.9		
268 861	168 971	99 890	160 346	89 113	5 588	7 612	2 776	2 765	41.4	33.8	97.5	96.1	56.9	22.5	3.0	0.9		
23	13	10	13	11	—	—	—	—	34.3	25	100.0	100.0	100.0	50.0	—	—		
7 497	5 375	2 122	5 148	1 903	92	124	62	40	37.3	34.4	98.8	95.9	73.2	33.9	—	1.6		
30 431	28 396	2 035	27 320	1 921	763	90	474	84	41.3	34.0	96.4	97.8	45.3	28.7	3.4	2.3		
191	137	54	137	47	—	—	—	—	47.7	43.0	94.9	100.0	57.7	44.4	—	—		
8 125	5 122	3 003	4 798	2 676	274	254	54	61	41.5	35.1	96.8	94.7	60.9	32.6	2.0	0.5		
135 208	89 530	45 678	86 284	42 293	2 466	2 466	1 270	1 004	43.8	37.2	97.4	96.0	56.1	18.0	3.7	1.4		
130 616	86 187	44 429	83 051	41 090	2 023	2 427	1 241	985	43.6	37.0	97.3	96.0	56.6	18.6	3.7	1.4		
4 592	3 343	1 249	3 233	1 203	73	39	29	19	51.2	44.5	94.8	96.2	42.7	26.2	99.3	51.6		
87 386	40 398	46 988	36 646	40 263	2 343	4 671	916	1 576	34.9	31.3	98.3	96.3	64.1	24.5	1.5	0.3		
36 133	18 315	17 818	16 309	14 595	1 172	1 967	446	604	34.3	30.3	99.3	96.5	69.6	28.8	1.2	0.4		
12 028	4 681	7 347	4 348	6 328	281	807	88	264	37.8	32.6	97.6	96.7	60.2	26.8	0.7	0.3		
1 940	867	1 073	789	984	36	67	37	11	39.5	30.7	92.7	96.9	36.2	29.0	1.2	0.6		
5 082	3 530	1 552	3 344	1 284	111	225	56	32	38.3	30.9	94.9	94.7	38.6	13.1	3.3	0.7		
32 203	13 005	19 198	11 856	17 072	743	1 605	289	665	34.3	31.7	98.5	96.1	66.4	20.3	1.7	0.1		
57 833	35 907	21 926	34 050	19 630	991	1 605	481	494	35.5	32.6	98.8	97.5	72.5	44.1	1.3	0.9		
6 567	6 025	542	5 708	457	183	542	75	40	37.6	29.4	97.1	97.1	65.3	47.8	0.5	—		
216	186	30	167	26	19	—	—	—	33.5	51.4	100.0	100.0	80.1	46.7	—	—		
6 327	5 815	512	5 617	431	164	40	75	40	37.9	29.0	97.0	97.0	65.1	47.9	0.6	—		
1 072	1 027	45	968	40	32	—	15	5	41.0	30.5	93.9	88.9	60.2	53.3	1.3	—		
114	94	20	81	20	8	—	—	—	32.6	30.0	91.5	100.0	39.4	—	—	—		
4 086	3 710	376	3 535	300	120	40	27	35	37.4	27.8	97.8	100.0	66.8	49.2	0.1	—		
422	406	16	406	16	—	—	33	—	33.3	30.0	96.6	100.0	53.9	62.5	1.2	—		
633	578	55	527	55	4	—	—	—	41.0	32.2	99.0	100.0	75.1	47.3	1.9	—		
24	24	—	24	—	—	—	—	—	28.8	—	100.0	—	8.3	—	—	—		
9 618	5 971	3 647	5 624	3 206	167	297	120	114	33.9	32.0	99.1	97.3	51.0	40.4	0.8	1.2		
5 903	3 242	2 661	3 031	2 388	112	230	76	46	35.2	32.3	99.0	97.8	61.8	43.9	0.2	0.7		
8 486	5 679	2 807	5 363	2 537	70	163	44	11	32.4	30.3	99.8	99.4	89.3	55.1	0.3	—		
320	106	214	100	178	6	9	—	—	33.8	33.0	100.0	100.0	60.4	27.6	—	—		
188	72	116	72	83	6	6	—	—	47.0	29.9	100.0	100.0	62.5	45.7	—	—		
132	34	98	28	95	6	3	—	—	26.5	39.7	100.0	100.0	55.9	6.1	—	—		
931	610	321	577	202	13	66	4	16	52.2	34.9	99.2	96.3	93.9	50.5	8.5	10.6		
3 886	300	3 586	272	3 337	9	162	48	34.1	39.8	48	95.3	98.6	72.3	32.2	6.0	1.8		
3 384	91	3 293	91	3 074	144	—	—	46	35.2	40.1	100.0	99.2	72.5	32.4	6.0	1.7		
209	293	181	263	209	9	18	—	—	33.8	35.1	93.3	92.2	72.2	30.0	8.6	3.8		
550	293	257	273	209	14	36	—	—	34.4	32.7	98.0	94.6	61.1	41.2	2.0	—		
4 209	2 667	1 542	2 577	1 435	52	86	6	13	36.9	33.3	99.7	94.6	67.9	47.0	0.8	0.1		
360	198	162	176	266	22	93	—	—	33.4	31.7	100.0	92.8	70.7	38.4	—	—		
8 533	6 907	1 626	6 699	1 256	183	134	54	13	39.9	32.4	100.0	99.1	96.8	66.7	2.6	0.7		
7 095	3 443	3 652	3 255	3 325	95	218	97	111	35.6	31.3	97.5	96.4	59.7	42.8	2.7	0.2		
1 375	466	909	395	834	65	71	5	12	39.8	34.2	88.6	95.5	55.4	38.8	1.1	0.6		
1 537 456	594 965	942 491	549 618	815 865	30 649	93 047	16 286	37 382	39.6	31.4	94.4	92.2	40.6	9.1	13.8	1.0		
36 791	19 444	17 347	17 545	15 112	978	1 405	613	519	31.0	34.4	97.5	96.8	43.2	29.9	1.0	0.8		
1 062	264	798	226	698	4	89	6	17	31.8	33.5	100.0	89.8	54.5	11.9	—	3.1		
479	34	445	34	395	4	50	—	—	31.0	33.9	100.0	90.3	67.6	2.0	—	5.6		
583	230	353	192	303	4	39	6	13	31.9	32.9	100.0	89.2	52.6	24.4	—	—		
2 553	1 201	1 352	1 067	1 115	83	174	60	69	31.8	30.3	94.5	96.0	32.1	12.7	0.6	—		
924	456	468	392	375	43	86	22	7	33.3	29.6	95.8	91.2	22.6	5.6	—	—		
119	47	72	47	72	—	—	—	—	31.6	26.6	100.0	100.0	70.2	29.2	—	—		
700	447	253	389	197	35	27	—	—	36	30.3	89.5	98.0	28.6	17.4	—	—		
810	251	559	239	471	5	61	38	26	31.7	29.5	100.0	98.6	48.6	14.5	2.8	—		
33 176	17 979	15 197	16 252	13 299	891	1 142	547	433	31.0	29.8	97.7	97.3	43.8	32.4	1.0	0.7		
178	176	2	171	5	5	—	—	—	39.3	25	98.9	100.0	27.3	100.0	—	—		
133	66	67	66	49	—	—	7	—	29.3	35.3	100.0	94.0	71.2	—	—	—		
20 933	12 747	8 186	11 370	7 035	719	647	367	184	30.2	29.2	98.4	98.7	48.0	46.1	0.2	0.5		
11 932	4 990	6 942	4 645	6 213	167	477	173	249	33.4	30.8	95.9	95.6	33.2	16.5	3.1	1.0		

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													
Insurance													

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States									
	Race					Insurance				
	Total		White		Black		Spanish origin ¹		Median age	
	Both sexes	Male	Female	Male	Female	Male	Male	Female	Male	Female
Extraction occupations	4 822	2 850	1 972	2 649	1 733	1 334	127	81	40.8	34.9
Precision production occupations	3 790	1 975	1 815	1 835	1 607	1 033	51	68	40.1	35.0
Supervisors, production occupations	98	86	12	85	12	—	9	—	37.0	30.0
Precision metalworking occupations	14	8	6	8	6	—	—	—	60.0	30.0
Tool and die makers	54	54	—	54	—	—	9	—	34.1	—
Machinists	8	8	—	7	—	—	—	—	37.0	—
Sheet metal workers	22	16	6	16	—	—	—	—	35.0	30.0
Other precision metal workers	63	39	24	39	16	—	—	—	43.1	51.3
Precision textile, apparel, and furnishings machine workers	126	91	35	78	19	7	17	13	34.8	36.2
Precision food production occupations	36	48	18	48	8	—	6	—	30.0	30.0
Precision inspectors, testers, and related workers	547	536	11	498	11	15	37	—	44.7	25
Plant and system operators	142	75	67	66	60	7	—	—	34.8	36.7
Other precision production occupations	11 101	6 363	4 738	4 970	3 945	1 003	559	120	30.8	29.5
Operators, fabricators, and laborers	7 956	3 978	3 978	3 130	3 345	566	339	107	31.3	29.2
Machine operators, assemblers, and inspectors	6 739	3 319	3 420	2 510	2 895	552	339	85	30.3	29.0
Machine operators and tenders, except precision	107	10	97	10	82	—	—	4	40.0	25
Metalworking and plastic working machine operators	12	6	6	6	—	—	—	—	60.0	30.0
Fabricating machine operators, n.e.c.	239	129	110	82	110	40	19	—	25.9	28.5
Metal and plastic processing and woodworking machine operators	3 331	2 280	1 051	1 736	912	359	212	32	30.4	30.0
Priming machine operators	28	6	22	6	18	—	—	6	30.0	25
Textile machine operators	35	6	29	6	18	—	—	—	50.0	36.5
Textile sewing machine operators	43	22	21	6	18	15	7	—	32.3	52.5
Laundering and dry cleaning machine operators	24	6	18	6	18	—	—	—	30.0	25
Packaging and filling machine operators	85	85	—	75	82	10	12	—	48.8	—
Forcage, kiln, and oven operators, except food	160	321	839	267	682	29	29	18	25	30.3
Other specified machine operators	1 675	448	1 227	322	1 043	99	60	25	31.1	27.5
Miscellaneous and not specified machine operators	448	120	328	116	270	4	—	8	26.9	29.4
Fabricators, assemblers, and hand working occupations	34	19	15	15	15	4	—	—	35.5	36.7
Welders and cutters	370	85	285	85	227	—	—	8	25	27.8
Solders and brazers	44	16	28	6	28	—	—	—	40.0	32.0
Hand working occupations	769	539	230	504	186	10	—	14	40.9	32.9
Production inspectors, testers, samplers, and weighers	101	14	87	8	69	—	—	6	26.3	34.7
Graders, sorters, except agricultural	668	525	143	496	111	10	—	8	41.7	31.8
Other production inspectors, testers, samplers, and weighers	1 307	145	162	803	133	288	96	6	34.9	27.0
Transportation and material moving occupations	1 074	967	107	671	96	242	91	6	34.9	24.9
Transportation occupations	1 074	967	107	671	96	242	91	6	34.9	24.9
Motor vehicle operators	405	531	74	359	69	137	62	—	30.3	25.9
Truck drivers	55	49	6	35	14	—	—	—	27.8	40.0
Driver-sales workers	414	387	27	277	27	91	29	6	46.1	32.7
Other motor vehicle operators	233	178	55	132	37	46	5	—	34.5	27.5
Rail and water transportation occupations	28	8	20	8	20	—	—	—	30.0	48.3
Material moving equipment operators	20	20	—	20	—	—	—	—	25	—
Supervisors, material moving equipment operators	185	150	35	104	17	46	5	—	36.5	25
Crane, hoist and winch operators	—	—	—	—	—	—	—	—	—	—
Excavating, grading, and dozer machine operators	—	—	—	—	—	—	—	—	—	—
Other material moving equipment operators	1 838	1 240	598	1 037	467	149	124	7	25.7	33.5
Handlers, equipment cleaners, helpers, and laborers	97	36	61	36	56	—	—	—	36.4	35.5
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	98	76	22	76	14	—	10	—	28.3	28.1
Helpers, craft and production	72	72	—	72	—	—	—	—	31.9	—
Construction laborers	515	407	108	316	81	63	34	—	25	25
Freight, stock, and material handlers	46	27	19	11	19	10	—	—	25	28.0
Garage and service station occupations, and equipment cleaners	78	19	59	19	46	—	—	—	25	25
Hand packers and packagers	932	603	329	507	251	76	80	2	26.8	34.9
Laborers, except construction	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States																	
Other finance and real estate																	
Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
Total		Male		Female		White		Black		Male		Female		Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
1 772 067	971 373	800 694	864 217	732 080	70 258	45 148	52 895	28 892	42.7	39.3	82.0	88.5	34.6	16.3	17.7	9.9	
Employed persons 16 years and over																	
371 662	224 548	147 114	205 326	134 262	10 899	8 504	11 067	5 028	43.2	40.1	88.1	86.3	46.2	21.0	13.8	7.3	
345 806	208 605	137 201	190 778	125 861	10 095	7 265	10 535	4 704	43.2	40.8	87.5	85.8	44.5	19.0	14.2	7.5	
55	22	33	52	32	168	52	120	58	38.3	39.2	108.0	97.2	70.5	6.1	6.5	2.2	
8 433	6 157	2 266	5 758	2 134	112	49	262	93	38.3	39.2	98.0	96.5	71.5	26.2	6.7	2.4	
14 985	11 267	3 637	10 919	3 637	112	49	262	93	41.3	39.2	96.4	96.5	53.2	29.2	9.7	5.4	
328	199	129	1174	118	20				44.0	43.4	87.4	86.0	44.2	29.5		17.8	
162 264	88 884	73 380	78 842	67 383	6 181	3 958	6 264	2 737	46.7	44.7	79.6	78.9	30.2	13.2	19.4	10.0	
114 413	75 274	39 139	70 502	36 415	2 273	1 880	2 977	1 128	43.8	39.3	91.3	92.3	50.8	21.5	11.4	5.4	
102 704	66 359	36 345	62 014	33 760	2 273	1 880	2 787	1 045	43.1	38.5	91.3	92.3	50.4	20.9			
11 709	8 915	2 794	8 488	2 655	152	53	190	83	49.6	48.9	91.4	87.2	53.7	28.5	95.9	75.3	
45 338	26 802	18 536	24 591	16 143	1 189	1 267	912	688	37.6	33.3	96.7	96.4	64.3	32.6	8.5	2.4	
23 045	13 332	9 713	12 107	8 302	539	641	496	375	34.6	32.9	98.8	96.9	71.6	38.5	38.8	1.9	
3 585	1 817	1 768	1 637	1 499	132	245	122	32	41.1	33.9	88.7	93.4	38.2	31.2	3.2	1.0	
2 012	1 425	587	1 314	554	79	29	39	4	40.3	35.5	90.5	91.8	39.9	16.4	16.5	6.0	
1 843	1 624	219	1 317	1 27	243	69	90	32	45.6	36.1	82.9	88.1	25.3	29.7	82.4	4.4	
14 853	8 604	6 249	8 216	5 661	196	283	165	245	39.6	33.7	98.7	97.1	69.8	25.6	16.2	3.2	
25 856	15 943	9 913	14 548	8 401	804	1 239	532	324	36.6	33.3	96.1	94.1	68.1	49.6	9.3	3.8	
4 869	4 518	351	4 137	336	137	10	213	—	38.5	30.1	94.9	100.0	61.3	61.3	9.8	9.4	
2 231	2 029	202	1 820	1 22	75	—	122	—	35.8	29.9	95.7	100.0	72.4	70.3	14.2	6.4	
2 344	2 197	147	2 027	132	62	10	91	—	41.8	30.5	94.6	100.0	59.5	49.7	4.8	13.6	
700	685	15	648	15	8	—	32	—	38.3	25—	94.6	100.0	65.3	60.0	3.4	—	
269	247	22	232	22	11	—	36	—	41.4	25—	100.0	100.0	55.9	2.4	2.4	—	
102	94	8	94	8	13	—	31	—	50.0	30.0	77.7	100.0	55.3	—	7.4	—	
359	359	—	334	—	30	10	28	—	39.4	32.8	96.4	100.0	28.4	—	8.3	19.6	
914	812	102	719	87	30	10	719	—	44.7	30.8	96.4	100.0	70.1	62.7	—	—	
294	292	2	290	2	—	—	—	—	34.9	32.0	92.1	100.0	20.2	—	16.4	—	
1 207	821	386	774	321	29	51	35	15	32.9	31.1	98.8	94.8	53.3	65.5	1.5	—	
763	529	234	467	207	25	22	12	—	34.8	30.7	98.5	94.0	52.7	53.8	17.1	—	
583	263	320	328	267	4	36	10	—	34.2	30.9	97.3	100.0	74.1	51.6	6.1	—	
532	402	130	372	121	5	9	—	—	38.6	30.3	97.0	95.4	70.1	38.5	8.5	10.8	
116	88	28	73	28	—	—	—	—	37.1	25—	100.0	100.0	76.1	32.1	—	—	
416	314	102	299	93	5	9	—	—	39.1	32.9	96.2	94.1	68.5	40.2	10.8	13.7	
203	172	31	172	31	—	—	—	—	45.8	34.4	100.0	100.0	93.6	58.1	30.2	—	
436	74	362	69	297	5	60	—	—	37.3	40.8	70.3	94.5	48.6	42.0	6.8	—	
290	18	272	18	218	5	49	—	—	31.0	42.3	83.3	97.1	55.6	36.0	—	—	
146	56	90	51	79	5	11	—	—	41.9	33.0	66.1	86.7	46.4	60.0	8.9	—	
501	224	277	196	221	23	56	2	6	34.6	42.4	96.9	91.7	40.6	56.3	12.1	2.5	
2 876	1 866	1 010	1 736	922	79	52	62	56	36.0	31.5	99.6	99.6	50.9	60.9	13.2	2.3	
2 328	647	1 681	356	917	249	668	48	111	32.2	37.3	87.8	88.6	78.0	37.5	38.9	1.6	
4 086	3 303	783	3 229	748	45	24	26	20	36.3	32.6	99.8	98.6	97.8	76.6	9.9	2.7	
6 191	2 560	3 631	3 211	3 407	159	183	96	32	37.8	32.9	91.5	92.8	45.0	44.3	9.1	5.3	
1 281	564	717	491	606	44	68	27	20	38.3	37.0	98.6	94.6	64.7	47.6	10.6	2.6	
1 111 962	506 729	605 233	479 118	563 928	15 589	25 341	13 380	19 396	43.5	39.1	93.1	92.3	43.5	16.2	26.2	11.1	
19 472	9 864	9 608	8 906	8 897	534	389	424	315	33.8	32.8	93.8	92.6	37.8	19.8	37.8	8.1	
136	29	107	29	77	21	—	—	—	31.3	33.8	100.0	93.5	75.9	15.9	11.9	—	
78	29	49	29	48	—	—	—	—	—	34.5	—	91.0	—	11.5	—	—	
58	29	29	29	29	—	—	—	—	31.3	32.2	100.0	100.0	75.9	27.6	—	—	
2 653	2 031	622	1 766	492	171	67	149	61	33.9	30.3	87.3	86.2	75.6	25.9	6.5	2.9	
433	314	119	262	74	30	33	34	19	30.9	27.6	91.1	81.5	11.1	10.9	6.4	—	
46	37	9	33	9	—	—	—	—	30.0	30.0	100.0	100.0	56.8	100.0	—	—	
1 422	1 120	302	972	262	93	14	96	15	32.9	30.9	87.7	87.7	20.0	25.8	3.2	2.3	
752	560	192	499	147	48	20	19	27	40.1	30.8	92.1	85.9	50.0	31.8	13.6	5.7	
16 683	7 804	8 879	7 111	8 328	363	301	275	242	33.8	33.0	95.4	93.0	40.3	19.4	13.3	8.6	
232	232	—	232	—	—	—	—	—	33.8	33.8	100.0	—	37.1	—	—	—	
250	61	189	59	167	—	6	2	27	36.1	28.5	100.0	86.8	27.9	12.7	—	—	
2 645	1 834	811	1 545	672	132	102	94	22	31.1	31.1	98.7	95.9	45.0	34.3	1.3	—	
5 677	5 677	7 879	5 275	7 489	231	193	179	193	35.0	33.5	94.1	92.9	39.0	18.1	17.9	9.7	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States												
Other finance and real estate												
Both sexes	Total		White		Black		Spanish origin ¹		Median age		Percent high school graduates	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.												
Sales occupations	765 372	448 479	430 458	304 863	9 095	5 934	9 536	6 903	44.5	42.5	94.0	93.8
Supervisors and proprietors, sales occupations	12 439	2 007	12 042	1 868	40	72	234	34	42.7	37.5	95.1	96.4
Salaries	9 386	1 450	9 048	1 356	140	240	160	34	42.7	37.5	96.5	97.2
Self-employed	5 050	4 353	4 998	293 724	8 622	5 086	9 100	6 416	46.4	48.0	92.6	94.5
Sales representatives, finance and business services	733 221	428 755	411 224	293 724	8 622	5 086	9 100	6 416	46.4	48.0	92.6	94.5
Sales representatives, commodities, except retail	17 500	6 874	10 323	9 154	333	776	202	453	42.9	37.7	85.3	85.9
Sales workers, retail and personal services	5 691	6 031	4 561	3 699	128	508	80	257	34.2	31.4	88.9	88.4
Cashiers	1 408	5 846	5 562	3 315	205	268	122	196	41.5	38.5	85.2	85.3
Other sales occupations, retail and personal services	242	184	184	58	—	—	—	—	41.7	35.0	89.1	89.0
Sales related occupations	327 118	48 386	278 732	250 184	5 960	19 018	3 420	12 178	33.1	33.7	84.4	90.5
Administrative support occupations, including clerical	15 264	6 784	8 480	5 902	378	714	353	399	38.7	34.2	90.2	94.1
Supervisors, administrative support occupations	5 008	2 321	2 987	1 756	378	481	295	206	29.5	30.1	92.7	91.4
Computer operators	151 246	1 897	149 349	1 641	161	6 867	92	5 522	36.3	33.4	87.9	92.8
Secretaries, stenographers, and typists	137 554	1 516	136 038	1 375	181	4 833	67	4 736	38.7	33.5	89.2	93.4
Stenographers and typists	13 692	381	13 311	10 557	80	2 034	32	786	28.1	32.2	82.7	86.6
Recorders	13 151	428	12 723	378	24	517	25	651	36.4	28.4	82.7	83.5
Other information clerks	4 311	1 377	2 934	1 139	149	374	48	137	31.9	31.5	80.9	83.5
File clerks	3 233	817	2 416	479	214	351	86	205	25—	25.0	76.6	77.6
Other records processing occupations, except financial	6 514	3 073	3 441	2 771	161	380	196	211	31.1	29.1	89.3	89.8
Bookkeepers, accounting, and auditing clerks	51 105	6 190	44 915	5 239	573	1 746	284	1 481	34.0	39.0	90.7	92.0
Payroll and timekeeping clerks	1 425	196	1 229	1 097	34	113	6	69	25.3	34.3	84.7	90.1
Other financial records processing occupations	1 544	435	1 109	404	16	69	22	40	35.0	34.2	89.9	90.4
Telephone operators	2 678	347	2 331	225	113	224	561	145	30.6	46.0	82.4	71.2
Mail and message distributing occupations	7 883	5 968	4 618	1 643	1 086	1 701	—	—	29.6	25—	64.9	73.1
Production coordinators and expeditors	1 820	913	907	692	118	164	85	72	33.4	31.8	88.4	84.0
Traffic, shipping, and receiving clerks	875	579	296	450	91	288	34	34	32.1	28.2	60.6	90.9
Stock and inventory clerks	2 039	1 269	770	998	223	93	96	34	30.5	29.4	76.8	82.7
Other material recording, scheduling, and distributing clerks	6 516	266	250	223	33	61	18	15	41.4	27.9	73.3	83.6
Adjusters and investigators	6 334	2 457	3 877	3 071	224	614	87	203	38.6	33.4	88.2	87.8
Data-entry keyers	7 506	1 002	6 504	692	185	1 498	148	759	31.4	29.3	88.1	89.4
Other administrative support occupations	43 866	12 067	31 799	26 265	1 506	3 998	936	1 898	31.8	33.3	85.6	86.4
Service occupations	169 864	129 358	40 506	92 453	26 797	10 183	17 637	3 997	41.2	42.5	50.7	44.6
Private household occupations	16 785	15 232	1 553	11 726	2 705	334	1 261	46	48.2	—	65.6	64.2
Protective service occupations	15 906	14 441	1 465	11 114	2 558	304	1 236	37	48.5	33.6	64.9	64.4
Guards	879	791	88	614	147	30	25	9	43.4	47.2	77.7	61.4
Other protective service occupations	153 079	114 126	38 953	80 725	24 092	9 849	16 376	3 951	40.4	42.8	48.8	43.8
Food preparation and service occupation	3 909	1 539	2 370	1 156	197	356	228	121	25—	35.1	48.1	51.4
Health service occupations	689	70	619	346	6	244	45	45	45.6	39.9	75.7	61.4
Cleaning and building service occupations, except household	137 876	105 074	32 802	74 424	22 398	8 466	14 518	3 466	40.0	43.7	48.8	41.7
Personal service occupations	10 605	7 443	3 162	5 081	1 491	783	1 623	319	48.8	38.4	48.4	56.5
Farming, forestry, and fishing occupations	29 943	28 499	1 444	22 906	3 385	1 223	3 173	40	37.3	30.8	45.7	60.9
Precision production, craft, and repair occupations	57 927	55 191	2 736	44 408	8 334	262	4 301	191	38.0	34.7	62.6	71.2
Mechanics and repairers	13 426	13 105	323	10 786	1 822	30	1 044	16	36.1	40.9	63.3	74.6
Supervisors, mechanics and repairers	1 017	983	34	914	129	34	66	8	34.2	30.3	72.9	76.5
Automobile mechanics, including body	2 506	2 506	51	2 019	108	7	207	8	34.4	34.7	57.5	100.0
Industrial machinery repairers	175	173	2	160	7	—	—	—	32.9	30.0	89.0	100.0
Electronic repairers, communications and industrial equipment	1 649	1 648	21	1 397	169	—	—	—	34.5	65.1	74.1	61.9
Heating, air conditioning, and refrigeration mechanics	7 102	6 894	208	5 574	1 048	30	547	—	36.6	37.5	61.3	85.1
Other mechanics and repairers	35 223	33 581	1 642	26 776	5 200	150	2 755	81	37.6	33.7	60.1	69.4
Construction trades	6 505	6 205	300	5 458	585	14	473	25	41.1	33.9	76.0	95.7
Supervisors, construction occupations	9 488	9 230	258	7 738	1 180	71	267	7	37.5	31.4	60.5	72.3
Carpenters	1 900	1 853	47	1 523	267	—	130	—	39.8	25—	74.5	100.0
Electricians	11 974	11 041	933	8 478	830	54	1 305	49	34.0	34.6	52.3	61.5
Painters, construction and maintenance	3 433	3 414	19	2 284	16	—	—	—	41.6	56.6	48.4	100.0
Plumbers, pipefitters, and steamfitters	1 923	1 838	85	1 295	472	8	139	—	34.2	34.0	46.5	84.7
Other construction trades	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Other finance and real estate													
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female
	Both sexes	Male	Female	Male	Female	Male								
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con.														
Extraction occupations	134	122	116	12	4	—	3	42.4	33.6	76.2	100.0	35.4	—	33.6
Precision production occupations	9 142	8 383	6 808	635	1 308	82	489	94	35.7	71.5	73.0	19.6	14.6	2.0
Supervisors, production occupations	3 223	2 700	2 216	461	406	33	173	48	38.3	78.9	79.5	17.7	20.1	4.4
Precision metalworking occupations	549	521	415	19	66	9	84	7	23—	55.3	100.0	2.1	—	—
Tool and die makers	14	—	14	—	—	—	9	—	—	100.0	—	—	—	—
Mechanics	208	185	152	14	33	9	7	7	32.1	61.1	100.0	2.7	—	—
Sheet metal workers	37	32	23	5	9	—	—	25—	30.0	78.1	100.0	—	—	—
Other precision metal workers	290	290	226	24	24	—	68	44.4	46.9	46.9	—	2.1	—	—
Precision textile, apparel, and furnishings machine workers	79	52	21	15	31	7	13	13	40.0	32.7	—	13.5	—	9.6
Precision food production occupations	157	102	76	48	14	7	—	37.5	29.2	57.8	83.6	10.8	—	—
Precision inspectors, testers, and related workers	68	68	38	—	30	—	10	—	31.4	55.9	—	14.7	—	2.9
Plant and system operators	4 837	4 795	3 957	26	701	16	218	41.9	42.0	70.5	59.5	5.8	14.3	0.7
Other precision production occupations	229	145	85	66	60	10	—	26	31.1	60.0	46.4	9.0	—	6.2
Operators, fabricators, and laborers	30 709	27 048	20 006	2 710	5 254	735	3 337	35.8	33.9	50.4	70.9	4.9	8.3	3.6
Machine operators, assemblers, and inspectors	7 053	5 332	3 776	1 344	1 772	244	654	36.6	33.5	62.1	82.5	8.7	12.0	4.8
Machine operators and tenders, except precision	5 457	4 111	2 861	1 091	1 792	152	505	37.3	33.4	60.6	81.9	7.5	11.7	5.1
Metalworking and plastic working machine operators	139	118	66	21	42	—	4	49.0	50.0	36.4	42.9	7.6	—	2.5
Fabricating machine operators, n.e.c.	9	—	—	9	—	—	—	—	—	—	—	—	—	—
Metal and plastic processing and woodworking machine operators	119	57	48	62	9	—	10	32.9	56.1	84.2	90.3	29.8	16.1	12.3
Printing machine operators	789	566	391	205	125	—	84	42	35.1	78.6	98.2	2.3	11.2	2.5
Textile machine operators	62	50	38	12	12	—	—	40.7	30.0	100.0	100.0	10.0	50.0	38.0
Textile sewing machine operators	58	—	—	48	—	—	19	—	—	—	60.3	—	13.8	—
Laundry and dry cleaning machine operators	258	102	82	81	20	43	—	24	45.2	33.3	54.5	—	7.7	5.9
Packaging and filling machine operators	67	42	25	42	—	—	—	36.4	38.9	66.7	100.0	45.2	16.0	45.2
Furnace, kiln, and oven operators, except food	1 119	1 089	622	30	366	—	192	—	27.0	56.1	83.3	1.5	—	—
Other specified machine operators	1 080	881	708	151	149	35	91	35	33.2	33.0	51.4	78.9	18.6	11.6
Miscellaneous and not specified machine operators	1 757	1 206	864	447	249	74	124	35	34.3	64.7	86.9	11.8	10.0	3.2
Fabricators, assemblers, and hand working occupations	875	702	508	135	110	17	123	15	29.8	65.0	83.8	11.0	16.2	4.6
Welders and cutters	291	291	212	—	15	—	66	—	31.5	70.4	—	4.5	—	2.7
Solders and brazers	19	—	—	19	—	—	—	—	—	—	68.4	—	31.6	—
Assemblers	348	256	191	67	60	4	37	15	35.3	60.9	76.1	8.2	17.4	5.1
Hand working occupations	217	155	105	49	35	13	20	40.2	28.9	61.3	100.0	27.7	9.7	7.1
Production inspectors, testers, samplers, and weighers	721	519	407	118	95	75	26	—	36.2	69.6	85.6	15.4	10.9	3.5
Graders and sorters, except agricultural	98	57	34	41	23	—	9	—	39.2	46.3	68.3	10.5	—	—
Other production inspectors, testers, samplers, and weighers	623	462	373	77	72	75	17	—	35.6	70.8	90.1	16.0	13.7	3.9
Transportation and material moving occupations	6 437	5 928	4 518	337	1 074	141	422	28	39.6	54.8	69.7	3.8	4.9	4.2
Transportation occupations	4 515	4 057	2 975	295	846	132	321	28	40.9	56.2	69.4	3.5	3.9	6.5
Motor vehicle operators	4 392	3 943	2 861	295	846	123	321	28	41.1	55.5	68.8	2.7	4.0	6.2
Truck drivers	2 503	2 255	1 744	192	413	30	205	28	37.0	56.6	63.3	2.0	7.3	6.2
Driver-sales workers	89	71	54	6	6	12	11	—	44.2	47.5	100.0	11.3	—	33.3
Other motor vehicle operators	1 800	1 617	1 063	97	427	81	105	—	50.2	53.7	73.2	3.3	—	8.2
Rail and water transportation occupations	1 123	1 114	1 114	9	—	9	—	—	33.2	30.0	100.0	32.5	—	9.8
Material moving equipment operators	1 922	1 871	1 543	42	228	9	101	—	37.0	31.1	72.5	4.6	13.7	5.6
Supervisors, material moving equipment operators	34	34	34	—	—	—	—	—	26.8	61.8	—	23.5	—	—
Crane, hoist and winch operators	133	133	85	15	48	—	—	—	38.9	56.4	—	—	—	9.8
Excavating, grading, and dozer machine operators	829	829	729	15	57	—	34	—	41.5	46.7	80.0	4.6	—	—
Other material moving equipment operators	911	875	695	27	123	9	67	—	36.6	27.5	69.4	4.6	19.4	5.0
Handlers, equipment cleaners, helpers, and laborers	17 219	15 788	11 712	1 029	3 003	350	2 261	55	34.2	44.9	57.4	3.9	5.0	2.9
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	119	112	73	7	39	—	—	—	50.0	50.0	100.0	—	100.0	—
Helpers, craft and production	690	627	484	27	96	36	110	—	28.6	35.4	49.2	0.2	—	100.0
Construction laborers	1 714	1 661	1 330	46	230	7	216	—	31.9	60.3	56.6	9.2	17.0	—
Freight, stock, and material handlers	1 107	954	690	121	208	32	95	—	25—	30.1	55.8	8.1	7.8	2.6
Garage and service station occupations, and equipment cleaners	362	348	235	8	91	—	60	6	43.1	29.2	42.9	5.2	—	2.9
Hand packers and packagers	157	99	71	18	15	40	31	—	35.9	32.0	44.4	6.1	—	—
Laborers, except construction	13 070	11 987	8 829	802	2 324	235	1 749	49	35.5	42.5	56.5	3.0	4.1	3.5

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Business services											
	Employed persons 16 years and over						Percent high school graduates					
	Total						Percent completed 4 or more years of college					
Both sexes	Male			Female			Male			Female		
	Total			Total			Total			Total		
Employed persons 16 years and over	Male			Female			Male			Female		
	Total			Total			Total			Total		
Managerial and professional specialty occupations	849 864	551 118	298 746	181 837	111 558	16 224	18 503	11 558	9 784	16 224	9 784	16 224
Executive, administrative, and managerial occupations	512 699	330 862	181 837	111 558	66 342	3 660	12 721	7 271	3 660	12 721	7 271	3 660
Officials and administrators, public administration	11 933	8 066	3 867	1 334	496	36	134	56	36	134	56	36
Financial managers	33 511	25 879	7 632	2 581	7 271	496	36	134	56	36	134	56
Managers, marketing, advertising, and public relations	900	477	423	151	100	10	10	10	10	10	10	10
Administrators, educational and related fields	15 021	9 124	5 897	3 390	1 446	337	337	1 446	337	337	1 446	337
Managers, other specialized managers	244 459	172 416	72 043	162 479	67 401	5 446	5 446	67 401	5 446	67 401	5 446	67 401
Managers, other specialized managers, n.e.c.	213 966	150 199	63 767	141 562	59 510	4 975	4 975	59 510	4 975	59 510	4 975	59 510
Self-employed	30 493	22 217	8 276	20 917	7 891	178	178	7 891	178	7 891	178	7 891
Management related occupations	208 805	114 842	91 963	106 795	83 176	4 727	6 082	3 087	3 549	6 082	3 087	3 549
Accountants and auditors	28 626	14 762	13 864	13 458	12 126	565	1 141	638	1 337	565	1 141	638
Personnel, training, and labor relations specialists	62 517	27 826	34 691	24 679	30 272	2 118	3 153	1 883	3 337	2 118	3 153	1 883
Buyers and purchasing agents	7 024	3 674	3 350	3 494	3 106	74	143	183	183	74	143	183
Inspectors and compliance officers	4 430	3 628	802	3 423	626	131	171	51	171	131	171	51
Other management related occupations	104 208	64 952	39 256	61 741	37 046	1 884	1 514	1 220	799	1 884	1 514	1 220
Professional specialty occupations	337 165	220 256	116 909	204 061	106 702	6 440	6 440	106 702	6 440	106 702	6 440	106 702
Engineers, architects, and surveyors	50 643	48 171	2 472	44 236	2 130	1 170	1 170	2 130	1 170	2 130	1 170	2 130
Architects	802	673	129	613	115	33	14	62	70	33	14	62
Engineers	49 581	47 301	2 280	43 440	1 952	1 127	1 127	1 952	1 127	1 127	1 952	1 127
Civil engineers	1 656	1 577	79	1 431	79	29	29	79	35	29	35	79
Electrical and electronic engineers	1 932	1 510	422	10 790	350	260	53	272	222	260	53	272
Industrial engineers	3 203	2 773	430	2 619	378	69	20	37	37	69	20	37
Mechanical engineers	4 074	3 949	125	3 673	113	174	5	125	56	174	5	125
Other engineers	28 016	27 492	524	24 927	1 032	695	53	525	128	695	53	525
Surveyors and mapping scientists	260	197	63	183	63	10	10	63	56	10	56	63
Computer systems analysts and scientists	46 384	37 172	9 212	34 103	8 408	1 361	396	812	173	396	812	173
Operations and systems researchers and analysts	6 423	4 927	1 496	4 506	1 342	179	95	96	35	179	95	35
Mathematical scientists	4 047	2 602	1 445	2 431	1 340	65	70	34	14	65	70	34
Natural scientists	21 767	17 484	4 283	16 342	3 688	294	190	323	184	294	190	323
Chemists, except biochemists	9 039	7 075	1 964	6 558	1 600	168	86	158	127	168	86	127
Other natural scientists	12 728	10 409	2 319	9 784	2 088	126	104	165	57	126	104	57
Health diagnosing occupations	1 021	787	234	745	217	10	5	15	15	10	5	15
Health assessment and treating occupations	22 513	1 346	21 167	1 171	17 641	133	3 039	47	490	133	3 039	47
Registered nurses	20 702	786	19 916	656	16 490	109	2 967	36	481	109	2 967	36
Other health assessment and treating occupations	1 811	560	1 251	515	151	24	72	11	9	24	72	11
Teachers, except postsecondary	4 104	2 078	2 026	1 821	1 739	155	210	154	50	155	210	50
Social scientists and urban planners	15 863	10 621	5 242	10 081	4 979	273	214	209	97	273	214	97
Social and recreation workers	2 832	1 627	1 483	1 483	1 309	239	282	85	122	239	282	85
Lawyers and judges	2 642	2 188	454	2 077	398	89	81	57	19	89	81	19
Writers, artists, entertainers, and athletes	154 129	89 979	64 150	84 251	60 890	2 804	1 508	3 408	1 681	2 804	1 508	3 408
Other professional specialty occupations	4 799	1 754	3 045	1 463	2 221	173	173	130	66	173	130	66
Technical, sales, and administrative support occupations	1 069 203	377 044	692 159	336 306	610 279	25 132	55 673	16 968	30 624	25 132	55 673	16 968
Technicians and related support occupations	182 668	127 135	55 533	115 067	46 883	5 944	5 511	5 178	2 287	5 944	5 511	5 178
Health technicians and technicians	12 796	1 823	10 973	1 476	8 225	183	2 315	116	567	183	2 315	116
Licensed practical nurses	10 099	538	9 561	395	7 042	91	2 209	395	536	91	2 209	395
Other health technicians and technicians	2 697	1 285	1 412	1 081	1 183	92	106	77	31	92	106	77
Engineering and science technicians	72 064	55 708	16 356	50 596	14 942	2 613	1 193	2 915	785	2 613	1 193	785
Electrical and electronic technicians	17 892	16 007	1 885	14 476	1 442	897	203	780	68	897	203	780
Industrial and mechanical engineering technicians	16 976	16 807	161	14 739	1 442	64	174	40	205	64	174	40
Drafting and surveying technicians	21 270	16 328	4 942	14 944	4 505	664	174	989	205	664	174	989
Other engineering and science technicians	32 234	22 532	9 702	20 439	8 324	1 018	816	1 100	512	1 018	816	512
Technicians, except health, engineering, and science	97 808	69 604	28 204	62 995	24 416	3 148	2 003	2 147	935	3 148	2 003	935
Airplane pilots and navigators	641	623	18	623	18	—	—	9	—	623	18	—
Air traffic controllers and broadcast equipment operators	2 711	1 607	1 104	1 464	983	99	81	82	57	99	81	57
Computer programmers	63 423	45 640	17 783	41 494	15 229	2 011	1 260	1 125	524	2 011	1 260	524
Other technicians, except health, engineering, and science	31 033	21 734	9 299	19 414	8 186	1 038	662	931	354	1 038	662	354

Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																	
Business services																	
		Race				Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
		Total		White													
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over—Con.																	
Technical, sales, and administrative support occupations—Con																	
Sales occupations																	
169 030	107 107	61 923	57 600	3 097	2 798	2 559	2 183	37.7	32.4	91.1	85.1	39.3	22.4	15.6	7.6		
14 638	11 567	3 051	2 805	286	147	301	104	36.9	36.3	91.0	89.7	26.1	19.0	11.4	9.8		
12 960	10 253	2 477	2 477	235	139	249	96	36.1	35.0	91.8	90.5	26.5	18.8	—	—		
1 678	9 853	344	328	51	8	52	8	43.6	46.5	84.9	88.6	23.0	20.1	99.2	86.9		
126 583	85 304	41 079	38 861	2 457	1 438	1 920	1 215	37.9	31.7	92.7	90.0	42.8	28.1	14.9	8.0		
1 515	1 412	1 103	96	10	6	—	—	44.1	30.9	97.8	100.0	67.5	64.1	7.9	3.6		
20 519	5 032	15 487	13 775	278	1 098	264	809	28.3	32.9	93.6	76.0	19.5	9.3	6.7	3.8		
5 100	700	4 400	3 767	58	445	62	374	27.4	25.5	76.3	75.9	21.7	3.1	2.1	1.0		
15 419	4 332	11 087	10 008	220	653	202	435	28.5	36.2	73.2	76.1	19.2	11.8	7.5	4.6		
5 775	3 572	2 203	2 063	66	108	74	49	45.2	40.5	74.9	76.8	14.2	12.3	61.5	25.2		
Sales related occupations																	
717 505	142 802	574 703	505 796	16 091	47 364	9 231	26 154	31.3	32.3	86.1	89.0	23.0	10.5	5.1	4.4		
43 243	19 354	23 889	21 248	1 357	1 915	1 868	1 153	36.1	35.8	93.4	91.5	36.7	15.5	2.0	1.6		
43 697	23 662	20 035	16 676	2 937	4 463	1 377	872	28.4	28.1	96.1	91.0	17.4	9.0	1.6	0.8		
220 990	5 939	215 051	193 008	409	13 438	314	8 791	35.1	32.4	94.2	93.6	25.0	10.7	28.8	7.9		
164 727	2 001	162 726	148 905	269	9 075	169	6 738	32.5	32.4	90.4	94.0	23.2	10.8	7.5	3.2		
36 263	3 938	32 325	28 033	140	4 363	145	2 053	36.0	32.4	96.1	92.3	23.2	10.8	39.6	22.5		
21 179	533	21 646	18 545	36	1 795	28	884	28.2	28.8	86.7	84.7	34.5	13.1	9.4	1.2		
26 067	4 128	21 939	3 415	337	1 676	222	693	27.2	25.0	80.3	81.3	34.5	13.1	5.3	4.4		
12 584	2 232	10 352	8 117	616	1 644	165	793	25.6	25.1	81.9	76.4	17.1	12.1	6.1	1.2		
13 191	3 658	9 533	8 194	452	907	325	564	32.2	32.6	84.0	87.3	25.6	15.2	6.0	1.6		
Other records processing occupations, except financial																	
55 275	5 529	49 746	45 935	478	2 247	324	1 636	33.8	36.7	92.3	92.0	31.5	10.3	7.1	3.9		
4 665	598	4 067	3 580	82	328	45	233	33.6	33.0	92.3	90.3	21.2	7.6	2.2	0.6		
6 953	1 304	5 649	5 029	123	417	126	306	37.0	32.2	91.6	90.0	31.1	10.4	7.7	0.9		
20 240	1 086	19 154	16 952	187	1 626	66	781	25.1	33.7	81.0	74.6	14.1	4.8	2.1	1.5		
24 929	16 205	8 724	11 810	7 155	3 363	1 201	1 525	29.9	32.0	63.2	71.7	6.6	4.9	4.3	2.8		
11 072	4 681	6 391	4 117	5 500	376	584	393	33.5	30.7	88.0	91.2	28.2	19.5	4.9	1.3		
7 337	5 041	2 296	3 980	1 979	770	201	432	28.5	29.9	76.9	79.7	7.8	8.6	1.8	1.3		
11 760	6 772	4 988	5 556	4 429	733	556	238	27.6	29.0	79.2	83.0	13.4	7.5	1.4	1.3		
6 700	3 651	3 049	3 251	2 616	311	218	188	31.1	31.6	79.3	79.8	30.5	5.7	3.0	—		
35 281	15 153	20 128	13 678	17 869	951	676	1 064	33.8	31.4	92.1	88.6	31.5	12.3	7.3	2.3		
30 399	3 133	27 265	26 580	6 941	1 523	329	3 062	26.3	33.1	87.0	89.5	22.0	5.0	0.9	1.2		
101 343	20 143	81 200	16 745	2 190	7 644	1 472	3 818	30.8	33.1	84.4	84.3	26.1	12.3	7.1	3.3		
Service occupations																	
497 507	340 102	157 405	256 590	63 759	41 822	29 842	16 027	34.8	38.0	59.7	52.2	6.2	3.2	11.5	12.1		
Private household occupations																	
173 377	150 826	22 549	118 342	26 390	4 930	8 311	1 156	40.5	31.8	65.8	70.1	7.5	4.8	2.7	1.4		
165 887	144 073	21 814	112 633	25 555	4 838	8 043	1 130	40.3	31.7	65.1	69.8	7.4	4.6	2.8	1.4		
7 480	6 755	735	5 799	535	1 069	248	126	42.1	36.0	80.5	78.4	13.0	10.2	1.7	1.5		
Other protective service occupations																	
324 130	189 274	134 857	98 327	37 560	36 892	21 531	14 871	32.5	39.1	54.8	49.2	5.1	3.0	18.5	13.9		
Food preparation and service occupation																	
5 827	2 508	3 319	2 408	2 408	759	209	307	29.5	38.7	52.2	56.6	10.0	3.9	0.6	2.3		
Health service occupations																	
19 886	1 488	18 398	9 949	1 446	6 593	133	1 404	32.4	41.3	79.2	64.1	18.1	4.5	12.7	7.4		
Cleaning and building service occupations, except household																	
285 789	182 786	103 003	133 630	35 859	27 704	20 996	12 530	32.6	39.4	54.5	44.9	4.7	1.9	18.8	14.9		
12 628	2 692	9 936	7 572	598	1 846	193	628	30.5	32.8	65.9	68.9	15.6	10.2	17.2	20.3		
Personal service occupations																	
3 792	3 119	673	580	493	28	309	68	32.3	28.8	51.4	72.5	6.2	10.1	8.3	10.5		
Farming, forestry, and fishing occupations																	
Precision production, craft, and repair occupations																	
119 584	108 109	11 475	9 709	6 085	1 197	5 779	743	33.9	33.6	79.4	78.4	8.3	11.2	5.9	6.6		
57 849	55 433	2 416	2 106	2 873	234	2 673	182	33.0	30.4	82.5	84.8	6.9	16.8	6.2	6.9		
2 365	2 181	184	168	70	13	130	8	37.5	34.1	83.9	94.0	9.7	30.4	8.3	2.7		
3 500	3 465	35	3 001	233	13	266	13	33.7	30.3	69.3	77.1	2.3	14.3	7.6	5.7		
6 150	5 926	224	5 318	419	33	247	2	32.9	32.0	75.6	86.6	3.2	12.1	3.7	—		
Industrial machinery repairers																	
4 833	4 598	235	216	225	10	250	6	33.0	32.7	87.3	80.4	8.6	15.7	11.3	5.1		
906	887	19	19	102	—	72	—	33.4	25.1	81.3	57.9	1.4	—	4.3	—		
40 095	38 376	1 719	35 278	1 494	178	1 708	153	32.8	29.7	84.1	84.6	7.7	16.4	8.1	8.9		
Other mechanics and repairers																	
28 740	27 686	1 554	24 927	1 488	104	1 734	51	33.0	32.3	71.5	79.4	4.5	10.0	7.1	14.2		
3 724	3 722	90	1 694	22	15	45	—	42.2	34.0	76.9	75.6	11.8	18.9	5.2	—		
8 560	8 302	259	7 549	237	27	331	11	34.4	29.4	64.9	68.7	6.4	9.2	7.4	13.7		
2 969	2 760	209	2 552	482	45	375	23	32.2	31.9	82.5	76.0	4.4	3.9	3.9	4.7		
Electricians, construction and maintenance																	
4 326	4 282	44	3 963	199	—	296	4	30.8	30.9	54.7	85.6	5.5	16.7	13.7	27.8		
7 299	6 977	322	6 320	439	17	427	8	31.9	27.6	75.9	70.5	2.8	20.5	5.2	—		
Other construction trades																	
Plumbers, pipefitters, and steamfitters																	
Other construction trades																	

¹Persons of Spanish origin may be of any race.

Table 1. **Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.**

United States																								
Business services																								
Race					Black		Spanish origin¹		Median age		Percent high school graduates		Percent completed 4 or more years of college											
Total			White		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female										
Both sexes	Male	Female	Male	Female																				
Employed persons 16 years and over—Con.																								
Precision production, craft, and repair occupations—Con.																								
Extractive occupations																								
Precision production occupations																								
Supervisors, production occupations																								
Precision metalworking occupations																								
Tool and die makers																								
Machinists																								
Sheet metal workers																								
Other precision metal workers																								
Precision food, apparel, and miscellaneous machine workers																								
Precision food products occupations																								
Precision instruments, testers, and related workers																								
Plant and system operators																								
Other precision production occupations																								
Operators, fabricators, and laborers																								
Machine operators, assemblers, and inspectors																								
Machine operators and tenders, except precision																								
Metalworking and plastic working machine operators																								
Fabricating machine operators, n.e.c.																								
Metal and plastic processing and woodworking machine operators																								
Printing machine operators																								
Textile machine operators																								
Textile sewing machine operators																								
Laundry and dry cleaning machine operators																								
Packaging and filling machine operators																								
Furnace, kiln, and oven operators, except food																								
Other specified machine operators																								
Miscellaneous and not specified machine operators																								
Fabricators, assemblers, and hand working occupations																								
Welders and cutters																								
Solders and brazers																								
Assemblers																								
Hand working occupations																								
Production inspectors, testers, samplers, and weighers																								
Graders and sorters, except agricultural																								
Other production inspectors, testers, samplers, and weighers																								
Transportation and material moving occupations																								
Transportation occupations																								
Motor vehicle operators																								
Truck drivers																								
Driver-sales workers																								
Other motor vehicle operators																								
Rail and water transportation occupations																								
Material moving equipment operators																								
Supervisors, material moving equipment operators																								
Crane, hoist and winch operators																								
Excavating, grading, and dozer machine operators																								
Other material moving equipment operators																								
Handyers, equipment cleaners, helpers, and laborers																								
Supervisors: handlers, equipment cleaners, and laborers, n.e.c.																								
Helpers, craft and production																								
Construction laborers																								
Freight, stock, and material handlers																								
Garage and service station occupations, and equipment cleaners																								
Hand packers and packagers																								
Laborers, except construction																								

Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																	
Automotive repair and services																	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con. [Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Automotive repair and services											
	Race						Median age		Percent high school graduates		Percent completed 4 or more years of college	
	White			Black			Male	Female	Male	Female	Male	Female
	Both sexes	Male	Female	Both sexes	Male	Female						
Technical, sales, and administrative support occupations—Con.												
Sales occupations	42 085	27 100	14 985	24 186	13 008	1 596	33.9	26.4	79.0	80.1	11.6	5.4
Supervisors and proprietors, sales occupations	10 039	7 605	4 334	7 008	387	511	37.4	32.7	76.1	83.9	8.9	7.1
Sales representatives, finance and business services	7 835	5 315	2 520	4 928	305	379	35.6	31.4	80.0	86.2	8.6	9.1
Sales representatives, commodities, except retail	2 844	2 040	844	1 980	82	372	42.3	47.9	84.3	85.3	20.3	10.8
Sales representatives, retail and personal services	6 932	5 596	1 334	5 062	1 411	207	34.4	27.3	84.3	84.4	56.0	3.5
Cashiers	25 068	12 055	13 011	10 075	11 210	878	35.8	26.0	100.0	79.5	37.2	4.7
Other sales occupations, retail and personal services	8 022	3 976	4 046	2 252	3 802	345	31.7	25.0	77.4	88.8	8.9	2.5
Sales related occupations	17 046	8 771	8 275	7 823	7 408	513	30.0	30.0	100.0	100.0	53.3	—
Administrative support occupations, including clerical	49 011	11 152	57 859	9 866	54 403	722	32.3	34.7	76.7	83.1	10.5	2.0
Supervisors, administrative support occupations	2 234	1 974	1 260	841	1 246	81	37.6	34.4	80.6	84.8	3.8	7.5
Computer equipment operators	834	251	583	218	33	26	29.1	26.8	89.0	89.0	11.6	4.4
Secretaries, stenographers, and typists	17 964	203	17 761	177	16 813	20	28.0	32.5	92.4	84.2	3.0	4.4
Secretaries	17 023	102	16 921	102	16 061	15	30.8	30.6	92.2	84.2	5.9	4.4
Stenographers and typists	941	101	840	75	752	11	25	30.6	58.4	84.8	37.2	3.9
Receptionists	1 600	43	1 557	43	1 382	11	27.8	27.9	37.2	80.0	9.9	—
Other information clerks	1 040	223	817	185	724	13	32.9	28.1	74.9	71.2	7.5	4.8
File clerks	617	53	564	28	504	11	31.9	26.4	62.3	75.5	5.8	0.5
Other records processing occupations, except financial	1 706	904	802	719	733	55	32.9	29.1	77.3	92.8	11.4	3.6
Bookkeepers, accounting, and auditing clerks	24 301	1 709	22 592	1 625	21 642	80	41.0	40.0	81.3	83.6	15.8	4.0
Payroll and timekeeping clerks	277	35	242	35	224	7	56.3	36.4	45.7	82.6	5.4	—
Other financial records processing occupations	881	182	699	176	665	4	35.7	30.8	81.3	91.0	7.6	—
Telephone operators	178	9	169	9	144	—	28	56.0	27.3	72.2	—	—
Mail and message distributing occupations	632	466	166	388	159	40	25	32.8	58.4	70.5	4.1	3.0
Production coordinators and expeditors	1 138	632	506	521	449	62	33.9	32.4	67.7	87.0	1.1	4.0
Traffic, shipping, and receiving clerks	394	124	270	324	117	16	27.1	34.3	84.8	56.5	10.4	6.5
Stock and inventory clerks	2 350	1 919	431	1 774	401	104	29.3	30.1	76.1	85.8	3.0	2.6
Other material recording, scheduling, and distributing clerks	1 473	838	635	705	592	26	32.9	28.7	69.3	74.2	18.9	3.5
Adjusters and investigators	1 423	834	589	776	536	57	30.4	30.4	78.5	91.9	28.3	12.9
Date-entry keyers	797	53	744	41	609	12	25	26.7	79.6	85.2	1.9	—
Other administrative support occupations	9 048	1 430	7 618	1 281	6 921	125	31.6	34.7	56.8	72.5	11.7	3.5
Service occupations	8 151	7 243	908	5 837	732	678	29.2	32.9	39.3	44.6	3.2	1.8
Protective service occupations	793	726	67	539	41	55	46.9	29.8	52.5	40.3	5.9	8.0
Guard	723	661	62	474	36	38	48.6	28.9	53.4	40.3	4.0	—
Other protective service occupations	70	65	5	65	5	17	38.4	40.0	43.1	100.0	4.4	—
Service occupations, except protective and household	7 358	6 517	841	5 298	691	128	27.6	33.7	37.9	44.9	3.1	1.9
Food preparation and service occupation	242	152	90	140	86	33	28.5	33.2	63.2	53.3	3.3	—
Health service occupations	19	12	7	12	7	—	25	30.0	58.3	100.0	—	—
Cleaning and building service occupations, except household	6 648	6 006	642	4 913	496	555	26.8	35.5	36.1	38.8	3.3	1.4
Personal service occupations	449	347	102	233	102	35	40.1	25	56.8	72.5	—	6.9
Farming, forestry, and fishing occupations	255	236	19	219	8	25	25	26.4	54.2	42.1	4.7	—
Precision production, craft, and repair occupations	553 579	546 700	6 879	483 543	5 794	42 676	33.0	33.2	60.2	66.0	2.4	5.3
Mechanics and repairers	336 092	330 322	5 770	469 562	4 809	40 705	33.0	32.8	60.1	65.2	2.4	5.7
Supervisors, mechanics and repairers	15 740	15 458	282	14 384	244	850	39.3	35.8	68.4	75.3	5.3	11.0
Automobile mechanics, including body	481 989	477 000	4 989	421 117	4 139	37 627	32.9	32.8	55.7	65.6	2.4	5.0
Industrial machinery repairers	1 682	1 631	51	1 489	51	92	31.1	30.8	60.8	47.1	2.2	—
Electronic repairers, communications and industrial equipment	858	823	35	768	23	65	34.7	31.6	66.2	62.9	5.2	—
Heating, air conditioning, and refrigeration mechanics	371	371	—	349	—	8	32.8	32.1	74.4	74.4	3.3	—
Other mechanics and repairers	35 432	35 019	413	31 455	352	2 053	32.2	32.1	56.7	56.7	1.7	11.9
Construction trades	4 397	4 294	103	3 534	98	700	30.8	38.3	58.6	47.6	2.6	—
Supervisors, construction occupations	110	110	—	95	—	4	40.0	53.6	53.6	6.4	—	—
Carpenters	544	527	17	501	17	27	33.6	58.6	59.0	58.8	3.8	—
Electricians	421	407	14	323	14	29	33.4	40.0	75.7	9.3	—	—
Painters, construction and maintenance	2 260	2 219	41	1 730	36	499	28.8	31.2	53.7	53.7	3.2	—
Plumbers, pipefitters, and steamfitters	142	135	7	111	7	24	25	54.2	65.2	5.2	—	—
Other construction trades	920	896	24	774	24	117	31.6	45.0	61.0	70.8	2.0	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States																
Automotive repair and services																
Race						Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed				
Total			White		Black		Spanish origin ¹		Male		Female		Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.																
Precision production, craft, and repair occupations—Con																
Extraction occupations																
27	12 057	1 006	27	887	813	75	1 271	34	38 5	18 5	72 2	4 3	22 2	22 2	10 6	13 5
13 063	12 057	1 006	10 420	887	813	75	1 271	34	38 5	18 5	72 2	4 3	22 2	22 2	10 6	13 5
4 650	4 328	322	3 728	293	374	22	319	11	34 5	63 5	65 5	3 4	16 9	16 9	6 6	8 4
2 245	2 164	81	1 963	74	132	7	103	—	31 8	50 8	71 6	1 3	15 8	15 8	5 8	—
59	59	—	59	—	—	—	—	—	36 9	—	—	—	—	—	—	—
2 007	1 940	67	1 772	60	117	7	85	—	31 8	65 7	65 7	1 3	16 2	16 2	5 8	—
91	77	14	61	14	—	—	9	—	25	55 8	100 0	1 3	—	—	—	—
88	88	—	71	—	8	—	9	—	34 2	89 8	—	—	—	—	—	—
4 068	3 716	352	3 111	303	164	23	726	12	32 8	54 8	70 7	1 9	29 5	29 5	23 9	—
1 118	1 113	5	95	5	11	—	33	—	52 3	15 9	100 0	—	—	—	—	—
1 639	1 446	193	1 278	159	95	23	75	11	34 5	76 0	88 6	5 7	48 7	48 7	3 1	—
133	133	—	93	—	32	—	—	—	27 3	32 3	—	8 3	—	—	—	—
210	157	53	152	53	5	—	15	—	35 7	62 4	60 4	8 9	—	—	50 3	35 8
Operators, fabricators, and laborers																
150 261	138 994	11 267	106 989	8 782	20 525	1 795	18 009	908	26 8	48 5	54 1	2 0	10 6	10 6	6 6	—
38 888	38 888	1 601	31 119	2 770	3 953	183	6 380	210	29 9	31 3	46 2	1 5	18 7	18 7	7 7	—
31 043	29 955	1 088	23 954	1 880	3 047	101	5 210	147	29 6	31 6	50 1	1 5	17 9	17 9	10 6	—
975	926	49	806	49	73	—	115	—	30 9	32 7	56 6	63 3	—	—	9 7	14 3
64	55	9	39	9	10	—	6	—	30 9	49 4	85 5	—	—	—	3 6	—
Metal and plastic processing and woodworking machine operators																
251	234	17	177	17	21	—	49	—	32 5	57 9	29 4	5 1	—	—	2 1	—
45	45	—	45	—	—	—	—	—	33 3	100 0	—	37 8	—	—	31 1	—
34	12	22	6	22	6	—	—	—	57 5	25	16 7	—	66 7	—	71 1	41 0
99	38	61	42	—	38	—	—	19	52 6	44 1	34 4	—	—	—	—	—
Textile sewing machine operators																
59	59	—	28	—	31	—	—	—	25	—	40 7	—	11 9	—	—	—
20	20	—	12	—	—	—	18	—	30 0	10 0	—	—	—	—	—	—
131	109	22	63	16	34	6	21	—	26 3	29 5	27 3	—	—	—	—	—
25 993	25 336	657	20 380	525	2 292	53	4 621	106	29 6	28 5	54 7	1 4	19 7	19 7	12 6	—
3 372	3 121	251	2 360	200	580	42	380	22	29 1	35 6	41 4	1 7	6 7	6 7	—	—
Miscellaneous and not specified machine operators																
8 962	8 540	422	6 828	312	864	71	1 147	44	31 0	31 2	36 5	1 3	13 1	13 1	1 9	—
4 954	4 895	59	4 017	48	374	2	642	9	30 7	27 8	78 0	1 5	12 4	12 4	10 2	—
5	5	—	5	—	—	—	16	—	25 4	33 3	60 0	—	14 9	14 9	4 0	—
3 455	3 287	168	2 552	111	444	38	456	19	31 7	32 7	49 1	1 2	13 8	13 8	9 5	—
501	311	190	224	148	46	31	33	16	27 7	31 9	35 8	—	17 0	17 0	—	—
484	393	91	337	80	42	11	23	19	26 4	30 5	44 0	3 6	4 3	4 3	—	—
21	12	9	12	9	—	—	—	9	30 7	25	—	—	—	—	58 3	—
Other production inspectors, testers, samplers, and weighers																
463	381	82	325	71	42	11	23	10	26 1	31 6	48 8	3 7	2 6	2 6	—	—
Transportation and material moving occupations																
48 691	44 267	4 424	32 769	3 574	8 183	595	4 691	225	30 8	29 0	68 0	3 2	9 5	9 5	4 2	—
47 905	43 553	4 352	32 161	3 539	8 106	578	4 613	205	30 8	28 9	67 9	3 3	3 8	3 8	9 5	4 3
43 506	40 006	4 352	32 089	3 539	8 096	578	4 606	205	30 8	28 9	67 9	3 3	3 8	3 8	9 4	4 3
23 189	21 798	1 391	18 551	1 889	2 334	141	1 524	83	30 2	27 4	56 9	1 5	27 4	27 4	16 4	4 3
186	159	27	137	27	13	—	9	—	30 9	25	74 2	17 6	3 8	3 8	8 1	—
24 431	21 497	2 934	13 401	2 323	5 849	437	3 073	122	31 7	29 5	69 5	4 9	23 2	23 2	2 1	—
99	99	—	72	—	10	—	7	—	32 7	32 7	74 7	—	—	—	—	—
786	714	72	608	35	77	17	78	20	31 3	42 5	56 4	1 0	9 5	9 5	—	—
30	30	—	30	—	—	—	—	—	54 0	—	56 7	—	—	—	20 0	—
28	28	—	22	—	6	—	—	—	48 6	—	57 1	—	—	—	—	—
103	85	18	76	6	—	—	33	12	35 6	42 5	75 3	100 0	—	—	21 2	—
625	571	54	480	29	71	17	45	8	29 8	42 5	66 7	1 2	7 7	7 7	—	—
Other material moving equipment operators																
61 081	55 839	5 242	43 101	3 936	8 389	1 017	6 938	473	25	25	44 8	1 5	7 4	7 4	8 2	—
Handlers, equipment cleaners, helpers, and laborers																
59	52	7	52	7	—	—	—	—	33 6	25	100 0	13 5	—	—	23 1	—
9 987	9 323	664	7 573	557	1 006	79	1 286	60	33 6	25	37 2	0 8	0 5	0 5	2 3	13 9
146	146	—	97	—	31	—	27	—	32 3	31 0	51 4	—	—	—	—	—
757	712	45	490	45	169	—	98	—	25	28 5	60 0	1 7	13 3	13 3	10 4	—
Garage and service station occupations, and equipment cleaners																
45 066	41 099	3 967	31 284	2 945	6 622	785	4 978	385	25	25	43 6	1 7	8 6	8 6	7 9	—
170	93	77	73	25	16	45	4	22	25 2	40 5	16 9	—	—	—	78 5	—
4 896	4 414	482	3 532	357	545	108	545	6	25	29 3	41 0	0 8	6 0	6 0	4 8	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Other repair services									
	Race				Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Black		Male		Male	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over	455 581	395 258	382 746	56 190	17 551	2 269	25 184	2 560	37.1	38.3
Managerial and professional specialty occupations	29 365	24 305	23 235	4 787	451	135	807	139	41.7	40.3
Executive, administrative, and managerial occupations	26 562	22 109	21 194	4 226	390	116	750	117	42.1	40.4
Officials and administrators, public administration	—	—	—	—	—	—	—	—	—	—
Financial managers	330	225	218	105	7	—	—	—	—	—
Managers, marketing, advertising, and public relations	1 235	1 121	1 099	114	—	—	48	7	34.8	34.6
Administrators, education and related fields	16	14	14	2	—	—	—	—	46.7	40.0
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—
Other specified managers	577	480	458	81	19	16	—	—	42.9	40.2
Managers and administrators, n.e.c.	22 457	18 905	18 147	3 392	329	75	635	110	42.6	40.2
Salaried	14 062	11 778	11 317	2 170	209	55	434	86	41.4	38.1
Self-employed	8 395	7 127	6 830	1 222	120	20	201	24	44.7	45.0
Management related occupations	1 947	1 364	1 298	532	35	25	67	—	37.7	35.9
Accountants and auditors	649	367	324	262	5	9	21	—	38.2	36.7
Personnel, training, and labor relations specialists	519	394	354	119	11	6	37	—	40.6	41.6
Buyers and purchasing agents	576	455	436	96	19	10	5	—	33.9	31.4
Inspectors and compliance officers	59	39	35	5	—	—	4	—	36.3	34.5
Other management related occupations	144	89	89	55	—	—	—	—	37.5	34.5
Professional specialty occupations	2 803	2 196	2 041	561	61	19	57	22	37.7	38.9
Engineers, architects, and surveyors	1 587	1 571	1 467	8	42	—	26	—	38.1	30.0
Architects	—	—	—	—	—	—	—	—	—	—
Engineers	1 587	1 571	1 467	8	42	—	26	—	38.1	30.0
Civil engineers	545	453	441	—	—	—	—	—	30.0	30.0
Electrical and electronic engineers	564	564	511	—	19	—	5	—	38.0	—
Industrial engineers	92	84	84	8	—	—	—	—	37.4	30.0
Mechanical engineers	468	468	418	—	19	—	12	—	39.3	—
Other engineers	394	394	390	—	9	—	9	—	39.0	—
Surveyors and mapping scientists	13	13	12	—	—	—	—	—	25	—
Computer systems analysts and scientists	65	56	56	9	—	—	—	—	35.0	30.0
Operations and systems researchers and analysts	37	26	11	18	8	—	—	—	39.1	34.2
Mathematical scientists	—	—	—	—	—	—	—	—	—	—
Natural scientists	17	13	13	4	—	—	2	—	29.4	25
Chemists, except biochemists	3	3	3	—	—	—	—	—	25	—
Other natural scientists	14	10	10	4	—	—	2	—	31.3	25
Health diagnosing occupations	10	5	5	—	—	—	—	—	25	—
Health assessment and treating occupations	27	—	—	19	—	—	—	—	—	—
Registered nurses	21	—	—	13	—	—	—	—	—	—
Other health assessment and treating occupations	6	—	—	6	—	—	—	—	—	—
Teachers, except postsecondary	245	101	94	138	—	—	7	20	46.6	43.4
Social scientists and urban planners	48	46	46	2	—	—	—	—	38.8	50.0
Social and recreation workers	11	—	—	11	—	—	—	—	44.2	—
Lawyers and judges	—	—	—	—	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	650	335	307	295	11	13	22	—	33.6	41.0
Other professional specialty occupations	106	35	35	59	—	—	—	—	42.5	30.7
Technical, sales, and administrative support occupations	55 391	21 879	20 522	31 787	727	927	1 040	1 178	34.9	37.7
Technicians and related support occupations	6 881	6 238	5 703	588	286	20	297	23	32.7	31.6
Health technologists and technicians	57	44	30	6	12	—	2	—	34.2	30.0
Licensed practical nurses	—	—	—	—	—	—	—	—	—	—
Other health technologists and technicians	57	44	30	6	12	—	2	—	34.2	30.0
Engineering and science technicians	2 848	2 757	2 496	63	128	9	135	8	32.6	34.8
Electrical and electronic technicians	2 301	2 239	1 993	34	128	9	130	8	33.0	32.1
Industrial and mechanical engineering technicians	30	29	24	—	—	—	5	—	34.5	40.0
Drafting and surveying technicians	216	214	214	2	—	—	—	—	30.9	30.0
Other engineering and science technicians	296	275	265	21	—	—	—	—	30.8	37.5
Technicians, except health, engineering, and science	3 976	3 437	3 177	519	146	11	160	15	32.7	31.2
Airplane pilots and navigators	13	13	13	—	—	—	—	—	25	—
Air traffic controllers and broadcast equipment operators	87	41	37	46	—	—	7	—	47.6	35.0
Computer programmers	98	63	26	—	—	—	—	—	25	—
Other technicians, except health, engineering, and science	3 778	3 320	3 064	447	146	2	153	15	32.7	31.5

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Other repair services							
	Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
	Total		White		Black													
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		
Employed persons 16 years and over—Con.																		
Technical, sales, and administrative support occupations—Con.																		
Sales occupations	12 580	9 985	2 595	2 350	132	147	290	120	38.0	35.0	82.5	75.0	13.8	6.9	18.5	12.3		
Supervisors and proprietors, sales occupations	3 924	3 660	3 516	2 249	75	—	90	7	39.4	38.5	84.9	89.4	8.9	12.5	24.5	22.3		
Sourcers	2 000	2 762	2 637	131	75	—	53	7	37.8	34.8	87.1	89.1	9.2	9.4	—	—		
Self-employed	6 372	4 955	1 417	1 260	47	103	170	58	45.5	40.0	78.0	89.7	8.0	15.9	100.0	46.8		
Sales representatives, finance and business services	6 372	4 955	1 417	1 260	47	103	170	58	36.1	35.4	80.7	69.8	15.8	6.2	16.1	13.2		
Sales representatives, commodities, except retail	6 372	4 955	1 417	1 260	47	103	170	58	36.1	35.4	80.7	69.8	15.8	6.2	16.1	13.2		
Sales representatives, retail and personal services	2 062	1 168	894	841	10	24	25	55	37.9	34.1	80.7	78.3	14.6	6.5	11.3	8.1		
Cashiers	2 062	1 168	894	841	10	24	25	55	37.9	34.1	80.7	78.3	14.6	6.5	11.3	8.1		
Other sales occupations, retail and personal services	1 775	1 090	1 083	662	7	11	14	29	38.6	34.5	80.9	77.8	13.7	6.9	11.9	8.8		
Sales related occupations	31	11	20	—	—	—	—	—	30.0	25	54.5	100.0	—	—	45.5	—		
Administrative support occupations, including clerical																		
Supervisors, administrative support occupations	35 930	5 656	30 274	28 849	309	760	453	1 035	33.4	38.1	78.0	82.1	10.1	4.0	5.6	8.3		
Computer equipment operators	1 084	489	595	572	45	23	28	11	32.8	38.1	89.2	88.7	20.4	12.6	29.2	8.7		
Secretaries, stenographers, and typists	214	55	159	133	5	23	11	5	28.8	30.8	87.3	88.1	—	5.0	—	—		
Secretaries	11 353	165	11 188	10 614	—	318	25	350	40.4	34.7	76.4	83.7	15.2	8.3	5.5	6.1		
Stenographers and typists	10 500	108	10 392	9 906	—	260	108	316	42.1	34.8	90.7	83.9	16.7	3.4	1.9	6.5		
Receptionists	853	57	796	42	—	58	25	34	38.8	33.0	49.1	81.0	12.3	3.6	12.3	0.9		
Other information clerks	1 082	35	1 047	980	—	46	5	59	25	32.7	71.4	77.5	—	3.6	—	7.2		
File clerks	983	123	860	123	—	—	—	20	53.4	46.3	67.1	67.1	12.2	1.7	18.7	5.8		
Other records processing occupations, except financial	256	45	211	188	—	9	—	28	33.3	25	35.6	51.7	13.3	6.6	13.3	4.1		
Bookkeepers, accounting, and auditing clerks	748	403	345	323	32	22	32	28	34.2	34.0	70.0	78.6	9.4	4.6	18.9	4.1		
Payroll and timekeeping clerks	10 394	634	9 760	9 511	18	110	81	267	39.8	41.6	86.1	84.5	15.1	5.1	4.9	12.9		
Other financial records processing occupations	221	60	161	140	4	—	—	6	40.0	39.1	86.7	85.1	13.3	—	—	—		
Telephone operators	453	116	337	304	7	19	—	14	49.3	35.1	81.0	86.9	17.2	—	5.2	1.8		
Mail and message distributing occupations	124	19	105	90	—	19	—	11	25	33.6	44.4	73.9	—	—	—	2.6		
Production coordinators and expeditors	246	194	152	183	22	—	24	12	35.1	27.8	64.4	90.4	7.2	—	7.7	—		
Traffic, shipping, and receiving clerks	554	377	177	138	39	15	19	32	35.1	32.0	70.2	69.4	5.8	12.1	1.0	—		
Stock and inventory clerks	375	248	127	94	39	15	19	32	37.8	30.6	70.9	67.3	3.8	2.0	0.8	—		
Other material recording, scheduling, and distributing clerks	1 866	847	783	335	44	—	63	17	52.8	59.4	80.7	77.3	9.9	2.4	3.5	0.3		
Adjusters and investigators	532	202	330	189	13	14	—	5	35.0	35.0	80.7	82.3	8.9	13.5	3.2	2.9		
Date-entry keyers	441	16	331	164	7	38	14	2	35.2	31.1	100.0	95.9	—	—	10.3	0.8		
Other administrative support occupations	282	16	266	246	—	—	7	131	36.2	42.6	70.6	77.6	8.4	3.0	—	8.7		
Service occupations																		
Private household occupations	3 687	2 813	874	654	373	161	145	65	36.3	37.7	45.0	55.9	2.4	0.3	13.3	12.2		
Protective service occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Guards	212	203	162	—	41	—	—	—	55.9	60.0	51.7	100.0	—	—	9.4	—		
Other protective service occupations	203	194	153	—	41	—	—	—	55.6	60.0	50.5	100.0	—	—	6.2	—		
Service occupations, except protective and household	9	9	9	—	—	—	—	—	58.6	—	77.8	—	—	—	77.8	—		
Food preparation and service occupation	3 475	2 610	865	654	332	161	145	65	34.8	37.5	44.4	55.5	2.6	0.3	13.6	12.4		
Health service occupations	277	172	105	81	21	8	29	—	31.0	37.7	62.2	80.0	4.1	—	19.2	1.9		
Cleaning and building service occupations, except household	25	13	12	12	—	—	—	—	32.5	43.3	46.2	91.7	46.2	—	—	—		
Personal service occupations	2 744	2 207	537	387	304	118	107	65	34.5	40.0	41.1	43.8	2.5	—	9.8	6.0		
Farming, forestry, and fishing occupations	429	218	211	174	7	35	9	—	50.1	32.3	63.8	71.1	—	—	48.6	34.6		
Precision production, craft, and repair occupations																		
Mechanics and repairers	2 141	2 076	65	61	31	—	44	—	35.0	25	76.4	87.7	11.2	3.1	90.9	61.5		
Supervisors, mechanics and repairers	267 101	252 242	14 859	13 842	10 562	525	14 717	596	38.8	40.1	69.7	65.8	5.3	8.0	39.2	52.2		
Automobile mechanics, including body	204 906	199 517	5 389	4 907	7 832	225	10 167	260	38.7	35.6	71.7	71.8	5.2	11.3	38.2	33.7		
Industrial machinery repairers	4 185	4 118	67	56	113	—	245	7	39.6	47.7	75.6	74.6	6.1	—	11.7	13.4		
Electronic repairers, communications and industrial equipment	5 868	5 740	108	529	271	22	323	19	32.1	34.4	65.5	59.3	2.3	7.4	22.2	27.8		
Heating, air conditioning, and refrigeration mechanics	7 456	7 339	6 813	111	282	—	332	19	34.6	28.1	72.5	55.6	3.5	12.0	20.5	6.0		
Other mechanics and repairers	40 983	40 172	811	36 560	713	66	2 243	55	43.8	40.6	75.1	59.1	5.4	4.8	48.4	36.7		
Construction trades	23 441	23 296	145	126	2 918	126	1 434	172	36.8	34.3	74.3	89.0	3.3	7.6	32.1	29.0		
Supervisors, construction occupations	122 973	118 832	4 141	3 822	4 160	—	5 590	—	37.9	34.5	70.1	74.4	5.8	13.0	38.7	34.5		
Carpenters	8 788	8 560	228	7 966	310	6	483	7	33.3	39.6	69.2	71.9	4.2	10.5	17.2	27.2		
Electricians	3 399	3 109	38	385	14	—	56	—	41.2	—	76.4	—	7.3	—	14.0	—		
Painters, construction and maintenance	1 147	1 099	38	1 032	6	—	—	—	35.9	31.3	66.8	100.0	7.5	31.6	30.2	36.8		
Plumbers, pipefitters, and steamfitters	3 472	3 427	45	3 205	106	—	173	—	36.6	36.0	76.0	80.0	4.8	—	13.3	4.4		
Other construction trades	758	662	96	577	19	—	115	7	27.3	27.3	45.3	62.5	1.2	12.5	8.5	16.7		
Persons of Spanish origin may be of any race.	1 212	1 206	6	1 20	67	—	68	—	33.5	60.0	73.2	100.0	2.7	—	11.9	—		
Other construction trades	1 800	1 757	43	1 647	43	—	68	—	31.7	57.7	62.3	55.8	2.3	—	24.3	69.8		

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States											
Other repair services											
Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
Total				Black		Male		Male		Male	
Both sexes	Male	Female	White	Male	Female	Male	Female	Male	Female	Male	Female
88	80	9	74	8	294	260	25—	72.5	100.0	63	—
53 319	44 085	9 234	39 643	2 414	8 717	40.7	42.2	61.1	62.1	5.7	6.0
4 278	4 095	183	3 819	124	306	37.4	34.6	67.5	63.9	4.8	12.6
7 677	7 499	178	6 889	333	505	35.2	34.6	68.6	88.8	3.0	1.7
3 015	2 982	33	2 789	53	177	35.2	35.2	73.1	100.0	3.0	—
3 377	3 213	164	3 047	96	149	35.2	35.2	73.1	100.0	3.0	—
3 341	3 177	164	3 047	96	149	35.2	35.2	73.1	100.0	3.0	—
26 003	19 131	6 872	16 690	134	245	37.3	30.1	63.7	89.8	2.9	2.3
413	334	79	294	12	22	45.0	39.1	48.2	60.8	0.6	6.3
318	278	37	244	29	18	42.9	36.8	73.0	89.2	2.4	—
338	236	2	153	24	17	37.3	30.0	74.6	100.0	5.9	100.0
14 395	12 512	1 883	11 523	583	721	38.2	36.4	66.8	73.9	10.9	12.7
97 896	91 943	5 953	81 835	5 407	8 431	32.4	34.8	56.9	57.8	2.4	5.0
76 991	72 179	4 812	64 596	3 791	6 850	33.1	34.5	58.6	57.3	2.5	5.2
14 878	11 979	2 899	10 788	665	900	34.2	36.5	58.9	55.3	3.7	5.7
5 487	5 049	438	4 704	199	281	42.7	30.3	57.6	59.4	5.2	7.8
137	107	30	102	5	—	31.6	54.4	57.0	73.3	3.7	—
539	513	26	440	45	48	29.5	38.3	68.2	76.9	9.2	42.3
67 564	61 534	6 030	55 400	4 133	6 266	33.2	34.5	57.4	100.0	—	53.8
213	167	46	153	—	9	30.9	33.3	83.2	71.7	4.2	8.2
1 011	72	939	52	43	22	44.2	44.7	56.9	49.5	—	2.6
72	23	49	15	8	21	25—	40.0	52.2	10.2	—	8.2
335	338	35	32	19	9	42.3	37.5	50.9	53.3	2.1	—
1 939	1 593	366	1 444	53	240	30.1	23.4	50.8	59.3	1.5	6.6
4 971	4 031	940	3 530	260	337	31.7	34.3	62.2	58.9	2.3	6.0
61 468	59 454	1 814	53 289	3 099	5 919	32.9	32.1	58.4	61.3	2.2	4.7
57 819	56 834	985	50 751	2 995	5 647	32.9	32.9	58.2	59.3	2.1	3.8
3 285	2 592	694	2 304	104	222	32.1	31.4	58.2	51.9	4.8	—
241	209	32	209	27	10	32.1	33.9	62.6	64.3	—	5.4
645	546	99	509	6	31	32.4	34.1	66.7	78.1	10.1	28.1
109	55	54	39	6	10	27.5	25.0	—	31.5	—	—
536	491	45	470	21	21	32.7	46.4	74.1	51.1	11.2	—
6 795	6 550	245	5 673	582	351	31.0	35.6	55.1	66.1	2.6	3.3
5 590	5 372	218	4 611	510	280	30.4	37.3	55.7	67.9	2.5	3.7
5 507	5 292	215	4 544	510	280	30.5	37.3	55.5	67.9	2.5	3.7
5 008	4 838	170	4 149	459	264	30.2	35.0	54.5	68.8	2.0	4.7
264	235	29	221	14	9	35.3	41.8	60.9	41.4	6.0	—
235	219	16	174	37	7	31.8	40.0	71.7	100.0	8.7	—
83	80	3	67	—	—	27.3	25—	67.5	100.0	2.5	—
1 205	1 178	27	1 062	72	71	33.2	25—	52.3	51.9	3.1	—
20	20	—	20	—	—	35.9	—	75.0	—	—	—
197	197	—	197	—	—	35.9	—	56.9	—	7.6	—
390	388	2	372	10	20	35.9	—	50.0	100.0	2.1	—
598	573	25	473	62	41	35.9	25—	51.5	48.0	2.3	—
14 110	13 214	896	11 566	1 034	774	28.1	36.8	48.8	58.0	1.9	4.1
34	34	—	34	—	—	50.0	—	100.0	—	32.4	—
3 393	3 130	263	2 712	232	489	44.1	44.1	43.5	54.0	0.7	1.5
264	254	10	226	6	22	33.8	25.0	55.1	50.0	7.9	—
479	450	29	416	34	40	25—	55.9	49.1	27.6	0.9	—
1 727	1 645	82	1 348	188	251	30.8	25.0	52.3	73.2	3.2	—
359	228	131	184	44	6	25—	34.9	49.6	38.2	3.1	1.5
7 854	7 473	381	6 646	530	428	31.3	35.2	49.8	66.9	1.7	6.8

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Hotels and lodging places												Percent self-employed				
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college						
	Total		White										Black				
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female				
Employed persons 16 years and over	1 051 809	395 636	656 173	308 773	506 898	47 361	101 770	44 554	48 816	33.3	35.3	67.1	61.8	13.2	5.7	6.5	16.7
Managerial and professional specialty occupations	162 815	96 637	66 178	87 149	60 154	3 357	2 899	4 399	2 046	40.9	41.4	84.7	81.1	29.1	14.8	19.2	17.9
Executive administrative, and managerial occupations	148 534	88 168	60 366	79 554	54 978	2 918	2 535	3 732	1 882	42.0	42.6	84.5	80.2	29.0	13.2	19.9	19.0
Officials and administrators, public administration	2 269	1 484	785	1 320	757	35	14	61	16	34.7	37.2	98.9	98.7	60.0	19.9	—	0.8
Financial managers	4 103	1 663	2 440	1 617	2 374	11	41	77	25	33.4	32.8	97.0	98.1	49.8	26.8	2.1	1.9
Managers, marketing, advertising, and public relations	176	72	104	72	104	—	—	—	—	45.7	37.0	88.9	92.3	47.2	36.5	18.1	5.8
Administrators, education and related fields	5 146	2 339	2 307	2 570	2 034	119	118	112	94	41.0	43.1	84.9	76.5	28.9	14.9	—	13.2
Managers, medicine and health	118 633	71 050	47 583	64 432	43 536	2 245	1 887	2 798	1 433	43.8	44.6	82.5	77.6	26.8	11.5	23.8	23.1
Other specified managers	88 089	53 351	34 738	48 440	31 591	2 027	1 741	2 547	1 232	40.4	41.7	84.6	78.7	28.9	11.9	—	—
Managers and administrators, n e c	30 544	17 699	12 845	15 992	11 945	218	146	251	201	50.8	49.9	76.1	74.4	20.3	10.6	95.7	85.6
Self-employed	18 207	11 060	7 147	9 543	6 173	508	475	684	314	32.9	33.1	93.7	90.6	35.7	17.7	1.5	1.5
Management related occupations	13 715	8 562	5 153	7 467	4 492	345	245	478	215	32.4	32.3	95.2	92.8	37.4	15.6	0.5	1.2
Accountants and auditors	2 183	1 063	603	1 577	971	115	184	101	81	35.5	35.0	85.0	85.7	30.7	26.5	3.6	1.0
Personnel, training, and labor relations specialists	1 471	731	434	889	416	40	18	82	—	35.6	34.4	88.1	89.9	21.1	15.9	0.8	1.4
Buyers and purchasing agents	140	48	92	48	39	—	28	5	—	48.5	48.2	100.0	100.0	48.2	25.0	—	—
Inspectors and compliance officers	698	450	248	382	235	8	—	23	13	41.4	35.0	95.1	85.1	48.7	29.4	17.1	9.7
Other management related occupations	14 281	8 469	5 812	7 595	5 176	439	364	667	164	31.6	29.8	86.8	90.1	30.7	32.0	11.6	6.4
Professional specialty occupations	1 019	517	301	732	501	135	—	133	—	39.0	36.7	83.3	91.1	23.4	40.6	1.2	—
Engineers, architects, and surveyors	117	66	51	50	51	9	—	7	—	36.6	40.9	71.2	82.4	47.0	51.0	—	—
Architects	895	845	50	676	50	126	—	126	—	39.4	33.1	84.1	100.0	21.5	30.0	1.3	—
Engineers	123	118	5	104	5	—	—	18	—	39.2	40.0	95.8	100.0	27.1	—	—	—
Civil engineers	271	271	—	198	—	69	—	28	—	40.4	30.0	78.6	—	29.5	—	4.1	—
Electrical and electronic engineers	87	75	12	65	12	10	—	67	—	40.9	30.0	89.3	100.0	34.7	—	—	—
Industrial engineers	229	229	—	165	—	39	—	—	—	39.6	33.7	91.4	100.0	12.7	—	—	—
Mechanical engineers	185	152	33	144	33	8	—	13	—	34.8	33.7	91.4	100.0	9.9	45.5	—	—
Other engineers	6	6	—	6	—	—	—	—	—	25	—	100.0	—	33.3	—	—	—
Surveyors and mapping scientists	191	128	63	104	63	6	—	—	7	31.1	27.5	100.0	100.0	55.5	55.6	6.3	—
Computer systems analysts and scientists	61	42	19	42	13	—	—	4	—	46.1	30.0	100.0	100.0	33.3	63.2	—	—
Operations and systems researchers and analysts	86	11	75	11	69	—	—	—	—	30.0	37.1	100.0	100.0	63.6	48.0	—	—
Mathematical scientists	112	59	53	45	53	14	—	—	—	30.9	29.1	64.4	88.7	35.6	47.2	—	—
Natural scientists	112	59	53	45	53	14	—	—	—	30.9	29.1	64.4	88.7	35.6	47.2	—	—
Chemists, except biochemists	112	59	53	45	53	14	—	—	—	30.9	29.1	64.4	88.7	35.6	47.2	—	—
Other natural scientists	18	18	—	11	—	7	—	—	—	42.5	—	100.0	—	—	—	—	—
Health diagnosing occupations	548	97	451	88	383	38	—	—	12	37.4	38.6	100.0	94.9	61.9	27.7	22.7	13.5
Health assessment and treating occupations	325	15	15	310	265	—	21	15	12	42.5	41.3	100.0	97.4	—	31.3	33.3	10.3
Registered nurses	223	82	141	73	118	—	17	—	—	35.4	32.8	100.0	89.4	73.2	19.9	20.7	20.6
Other health assessment and treating occupations	3 030	1 489	1 541	1 411	1 442	49	73	79	32	26.0	26.5	92.4	86.5	35.9	34.8	1.9	3.5
Teachers, except postsecondary	301	179	122	172	117	7	—	4	—	32.4	27.4	100.0	92.6	52.5	42.6	10.6	—
Social scientists and urban planners	1 362	685	677	603	517	56	132	21	25	25	25	78.5	81.5	30.2	27.6	2.9	2.4
Social and recreation workers	167	148	19	136	13	7	—	10	—	33.0	35.5	100.0	100.0	100.0	52.6	—	—
Writers, artists, entertainers, and athletes	6 842	4 375	2 467	3 960	2 230	128	74	408	75	32.7	31.8	85.0	92.8	24.5	28.5	19.6	9.6
Other professional specialty occupations	545	321	224	280	173	30	41	8	6	40.4	26.2	92.8	91.5	44.9	41.1	2.8	0.9
Technical, sales, and administrative support occupations	165 969	42 967	123 002	36 435	108 260	3 324	8 807	2 842	5 790	31.0	32.9	81.8	81.3	18.4	7.6	2.4	1.7
Technicians and related support occupations	354	874	480	752	414	102	48	45	8	30.9	31.4	87.1	91.9	15.9	24.2	1.7	10.6
Health technologists and technicians	198	43	155	43	132	—	17	—	—	29.2	39.5	67.4	81.3	—	9.0	—	23.9
Licensed practical nurses	126	—	126	—	103	—	—	—	—	—	—	—	81.7	—	4.8	—	25.4
Other health technologists and technicians	72	43	29	43	29	—	—	—	—	29.2	27.7	67.4	79.3	—	27.6	—	17.2
Engineering and science technicians	561	457	104	385	92	58	—	45	—	36.4	32.9	79.4	100.0	8.5	38.5	2.0	—
Electrical and electronic technicians	169	169	—	155	—	—	—	12	—	39.2	32.9	100.0	—	—	—	—	—
Industrial and mechanical engineering technicians	26	26	—	26	—	—	—	5	—	38.5	—	73.7	—	—	—	—	—
Drafting and surveying technicians	161	95	66	84	66	11	—	—	—	31.0	36.7	73.7	100.0	23.1	15.2	34.6	—
Other engineering and science technicians	205	167	38	120	26	47	—	28	—	32.4	27.1	65.3	100.0	3.0	78.9	—	—
Technicians, except health, engineering, and science	595	374	221	324	190	44	31	8	—	28.2	28.2	98.7	95.5	26.7	28.1	1.6	6.3
Airplane pilots and navigators	65	65	—	65	—	—	—	—	—	30.6	—	100.0	—	—	—	—	—
Air traffic controllers and broadcast equipment operators	90	48	42	38	34	10	8	8	—	30.0	25	89.6	100.0	—	7.1	—	—
Computer programmers	267	172	95	138	85	28	10	—	—	29.3	28.8	100.0	100.0	30.2	46.3	—	7.4
Other technicians, except health, engineering, and science	173	89	84	83	71	6	13	—	—	25	29.3	100.0	88.1	22.5	17.9	6.7	8.3

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Hotels and lodging places													
United States													
Employed persons 16 years and over—Con.													
Technical, sales, and administrative support occupations—Con													
Sales occupations													
Supervisors and proprietors, sales occupations													
Self-employed													
Sales representatives, finance and business services													
Sales representatives, commodities, except retail													
Sales workers, retail and personal services													
Cashiers													
Other sales occupations, retail and personal services													
Sales related occupations													
Administrative support occupations, including clerical													
Supervisors, administrative support occupations													
Computer equipment operators													
Secretaries, stenographers, and typists													
Stenographers and typists													
Receptionists													
Other information clerks													
File clerks													
Other records processing occupations, except financial													
Bookkeepers, accounting, and auditing clerks													
Payroll and timekeeping clerks													
Other financial records processing occupations													
Telephone operators													
Mail and message distributing occupations													
Production coordinators and expeditors													
Traffic, shipping, and receiving clerks													
Stock and inventory clerks													
Other material recording, scheduling, and distributing clerks													
Adusters and investigators													
Data-entry keyers													
Other administrative support occupations													
Service occupations													
Private household occupations													
Protective service occupations													
Guards													
Other protective service occupations													
Food preparation and service occupations													
Health service occupations													
Cleaning and building service occupations, except household													
Personal service occupations													
Farming, forestry, and fishing occupations													
Precision production, craft, and repair occupations													
Mechanics and repairers													
Supervisors, mechanics and repairers													
Automobile mechanics, including body													
Industrial machinery repairers													
Electronic repairers, communications and industrial equipment													
Heating, air conditioning, and refrigeration mechanics													
Other mechanics and repairers													
Construction trades													
Supervisors, construction occupations													
Carpenters													
Electricians													
Painters, construction and maintenance													
Plumbers, pipefitters, and steamfitters													
Other construction trades													
Persons of Spanish origin may be of any race.													

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Hotels and lodging places												
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
	Total		Black		Male	Female	Male	Female	Male	Female	Male	Female
	Both sexes	Male	Female	Male								
Precision production, craft, and repair occupations—Con												
Extrusive occupations	4											
Precision production occupations	8 462	6 602	1 860	4	754	497	39 9	25—	68 0	100 0	—	—
Supervisors, production occupations	2 436	1 771	665	1 202	207	404	40 3	42 2	61 4	54 5	6 9	3 4
Precision production occupations	239	207	32	787	15	16	38 4	30 5	72 4	78 1	12 0	3 1
Tool and die makers												
Mechanics	128	128	—	—	15	—	—	—	68 8	—	—	—
Sheet metal workers	33	17	16	—	—	—	36 6	—	52 9	—	—	—
Other precision metal workers	78	62	16	16	—	—	48 5	—	51 6	100 0	—	—
Precision textile, apparel, and furnishings machine workers	505	230	275	182	103	44	31 2	31 2	56 3	—	8 1	12 5
Precision food production occupations	865	709	156	109	163	17	43 4	50 7	56 5	53 1	5 2	17 8
Precision inspectors, testers, and related workers	18	18	—	—	393	16	65+	31 3	47 5	50 0	1 7	—
Plant and system operators	4 256	4 139	117	93	—	—	38 8	37 1	70 4	72 6	6 6	18 8
Other precision production occupations	143	128	15	15	20	—	55 4	25—	71 1	100 0	10 2	—
Operators, fabricators, and laborers	35 059	16 625	18 434	11 022	3 160	5 349	29 5	41 5	57 1	38 3	4 3	1 1
Machine operators, assemblers, and inspectors	20 747	4 775	15 972	3 082	994	4 622	31 8	42 4	51 5	36 9	4 5	0 7
Machine operators and tenders, except precision	19 569	4 150	15 419	2 599	894	4 442	32 0	42 5	49 7	36 6	4 5	0 7
Metalworking and plastic working machine operators	66	59	7	46	13	2	27 7	32 0	39 0	28 6	—	—
Fabricating machine operators, n.e.c.	11	3	8	3	—	—	25—	25—	—	—	—	—
Metal and plastic processing and woodworking machine operators	516	86	430	383	6	47	30 6	34 6	81 4	60 9	—	—
Printing machine operators	65	43	22	29	14	—	37 1	32 1	65 1	90 9	—	0 5
Textile machine operators	27	6	21	13	—	—	40 0	59 2	100 0	—	—	27 3
Textile sewing machine operators	532	14	518	—	14	148	25—	55 1	—	54 2	—	1 4
Laundry and dry cleaning machine operators	15 540	2 100	13 440	8 049	557	3 910	30 3	42 4	42 0	34 8	2 4	0 6
Packaging and filling machine operators	6	6	—	—	—	—	50 0	—	100 0	—	—	—
Furnace, kiln, and oven operators, except food	147	147	—	—	10	—	41 5	—	76 2	—	—	—
Other specified machine operators	1 131	472	659	282	83	255	38 6	42 6	56 4	34 3	4 2	2 0
Miscellaneous and not specified machine operators	1 528	1 214	314	724	197	80	32 7	35 7	54 9	55 4	9 6	2 9
Fabricators, assemblers, and hand working occupations	628	516	112	402	90	11	30 0	34 7	65 7	38 4	3 5	—
Welders and cutters	240	233	7	187	22	—	29 8	30 0	70 0	—	3 4	—
Solders and brazers	22	17	5	10	—	—	25—	25—	58 8	100 0	—	—
Assemblers	288	209	79	156	53	11	29 9	39 3	63 6	38 0	—	—
Hand working occupations	78	57	21	49	8	—	31 7	25—	57 9	38 1	17 5	—
Production inspectors, testers, samplers, and weighers	550	109	441	81	10	169	33 6	41 2	56 0	46 0	6 4	—
Graders and sorters, except agricultural	71	15	56	29	4	12	41 8	30 2	33 3	73 2	—	—
Other production inspectors, testers, samplers, and weighers	479	94	385	175	6	157	31 4	42 7	59 6	42 1	7 4	—
Transportation and material moving occupations	6 764	6 059	705	4 554	1 105	177	28 5	32 2	67 8	63 0	5 0	6 4
Transportation occupations	6 278	5 600	678	4 141	1 078	177	28 4	32 1	67 9	61 5	4 9	5 9
Motor vehicle operators	6 178	5 508	670	4 076	1 058	177	28 4	31 8	68 7	61 0	5 0	6 0
Truck drivers	1 759	1 436	323	1 059	262	119	30 4	38 7	60 8	56 3	1 6	3 7
Driver-sales workers	212	210	2	151	52	—	34 2	50 0	75 7	100 0	2 4	—
Other motor vehicle operators	4 207	3 862	345	2 866	744	58	27 0	25 6	71 3	65 2	6 3	8 1
Rail and water transportation occupations	100	92	8	65	20	—	30 7	50 0	18 5	100 0	—	—
Material moving equipment operators	486	459	27	413	27	—	29 5	34 2	66 7	100 0	6 1	18 5
Supervisors, material moving equipment operators	5	5	—	—	—	—	30 0	—	—	—	—	—
Crane, hoist and winch operators	21	21	—	—	—	—	25—	—	81 0	—	—	—
Excavating, grading, and dozer machine operators	88	88	—	—	—	—	39 1	—	58 0	—	—	—
Other material moving equipment operators	372	345	27	304	27	—	28 3	34 2	67 5	100 0	8 1	18 5
Handlers, equipment cleaners, helpers, and laborers	7 548	5 791	1 757	4 166	1 061	550	28 5	36 7	50 4	41 6	3 6	3 2
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	66	35	31	28	7	14	30 7	57 6	34 3	25 8	—	—
Helpers, craft and production	483	330	153	263	60	45	26 8	37 0	45 5	26 1	—	4 6
Construction laborers	568	1 057	23	482	49	20	27 5	25—	56 3	69 6	4 4	8 7
Freight, stock, and material handlers	1 122	1 057	65	774	203	15	29 2	36 9	60 0	60 0	3 0	10 8
Garage and service station occupations, and equipment cleaners	611	407	204	233	110	69	30 6	41 7	50 4	39 7	2 0	—
Hand packers and packagers	93	33	60	21	12	47	31 4	42 4	45 0	45 0	24 2	—
Laborers, except construction	4 605	3 384	1 221	2 365	620	360	28 2	36 0	47 1	42 6	4 0	3 4

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Other personal services, including private household																
	Race						Spanish origin¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
	Both sexes	Male	Female	Male	Female	Male											Female
Employed persons 16 years and over	2 023 955	514 822	1 509 133	420 021	1 076 623	67 170	354 923	39 891	115 637	41.2	41.4	64.9	55.7	9.1	3.0	31.6	14.8
Managerial and professional specialty occupations	178 822	113 721	65 101	102 646	58 497	7 311	4 440	3 828	2 394	42.1	37.8	86.6	81.0	24.1	16.3	34.7	21.8
Executive, administrative, and managerial occupations	120 942	85 119	35 823	76 620	31 593	5 880	2 770	2 541	1 472	41.6	41.7	85.5	77.3	22.0	11.9	28.6	23.8
Officials and administrators, public administration	39	6	33	6	33	—	—	—	—	—	—	100.0	78.8	—	—	—	—
Financial managers	688	487	191	455	149	4	12	24	6	42.6	42.1	92.1	92.1	62.0	24.6	2.5	7.0
Managers, marketing, advertising, and public relations	3 244	2 152	1 092	2 088	1 049	50	23	29	13	38.4	30.8	89.2	89.0	26.9	17.3	5.2	5.1
Administrators, education and related fields	253	79	174	55	154	11	8	13	24	36.3	37.0	92.4	93.1	35.4	28.2	25.3	10.3
Managers, medicine and health	39 898	35 829	4 069	32 342	3 242	3 144	778	477	89	44.2	48.3	91.5	86.9	22.6	21.5	22.6	29.2
Other specialized managers	72 706	44 559	28 147	39 850	25 030	2 498	1 761	1 947	1 288	45.4	42.0	80.4	78.3	20.1	9.4	35.9	25.1
Managers and administrators, n.e.c.	48 306	28 271	20 035	25 927	18 101	1 463	1 343	1 209	870	42.6	39.6	83.7	74.0	22.3	9.4	98.3	87.0
Soldiers	24 400	16 288	8 112	13 913	6 929	1 035	418	738	418	49.5	46.9	74.6	75.2	18.4	9.5	—	—
Self-employed	4 134	2 013	2 121	1 804	1 096	173	188	51	65	40.9	39.3	87.3	89.3	38.0	21.2	11.5	8.3
Management related occupations	1 507	714	793	666	744	28	25	40	28	42.2	32.7	94.8	93.4	63.4	25.6	15.3	3.3
Accountants and auditors	1 432	801	631	659	522	126	102	11	27	35.8	37.4	83.0	85.6	19.5	11.9	7.1	12.5
Personnel, training, and labor relations specialists	315	154	161	141	122	13	39	—	5	42.6	35.6	88.3	82.6	20.1	28.6	8.4	13.0
Buyers and purchasing agents	23	16	7	16	5	—	2	—	—	57.0	36.3	100.0	71.4	37.5	—	—	—
Inspectors and compliance officers	857	328	529	322	503	6	20	—	5	49.1	31.6	80.5	89.6	36.3	23.6	16.2	9.5
Other management related occupations	57 880	28 402	29 278	26 026	26 904	1 431	1 670	1 287	922	34.6	33.2	89.8	85.6	30.4	21.7	52.2	19.4
Professional specialty occupations	491	415	76	323	76	29	—	—	—	39.9	33.7	90.4	76.3	31.1	10.5	10.8	22.4
Engineers, architects, and surveyors	45	32	13	23	13	—	—	—	—	31.9	65.6	65.6	100.0	53.1	38.5	18.8	61.5
Architects	426	363	63	280	63	29	—	18	—	40.0	34.0	92.0	71.4	29.2	4.8	9.1	14.3
Engineers	12	12	—	9	—	—	—	—	—	49.3	—	41.7	—	—	—	—	—
Civil engineers	18	18	—	12	—	6	—	—	—	50.0	—	66.7	—	—	—	—	—
Electrical and electronic engineers	69	58	11	32	11	—	—	7	—	30.3	40.0	100.0	100.0	31.0	27.3	12.1	—
Industrial engineers	158	158	—	124	—	23	—	11	—	38.0	—	89.9	—	5.1	—	3.8	—
Mechanical engineers	169	117	52	103	52	—	—	—	—	44.3	30.3	100.0	65.4	64.1	—	17.1	17.3
Other engineers	20	—	20	—	—	—	—	—	—	51.7	—	100.0	—	30.0	—	30.0	—
Surveyors and mapping scientists	58	52	6	48	6	—	—	—	—	31.2	30.0	100.0	100.0	61.5	—	19.2	—
Computer systems analysts and scientists	25	15	10	10	10	5	—	—	—	46.7	45.0	100.0	100.0	66.7	50.0	—	50.0
Operations and systems researchers and analysts	15	4	11	4	11	—	—	—	—	30.0	31.9	100.0	100.0	100.0	18.2	—	—
Mathematical scientists	171	124	47	124	47	—	—	—	—	30.4	29.7	100.0	72.3	65.3	27.7	8.9	14.9
Natural scientists	19	19	—	19	—	—	—	—	—	32.9	—	100.0	—	31.6	—	—	—
Chemists, except biochemists	152	105	47	105	47	—	—	—	—	29.6	29.7	100.0	72.3	71.4	27.7	10.5	14.9
Other natural scientists	261	133	128	99	94	18	22	10	32	42.9	40.3	100.0	100.0	72.9	28.1	46.6	50.0
Health diagnosing occupations	7 008	446	6 562	366	5 311	56	1 036	20	176	35.6	45.1	88.1	84.9	43.3	22.3	13.2	4.0
Health assessment and treating occupations	5 742	210	5 532	156	4 373	48	1 012	14	119	40.7	47.4	83.3	84.6	45.7	20.4	—	1.4
Registered nurses	1 266	236	1 030	210	938	8	24	6	57	32.7	32.1	92.4	86.5	41.1	32.1	25.0	17.9
Other health assessment and treating occupations	10 768	2 418	8 350	2 204	7 948	120	209	132	346	25	25	85.9	82.1	20.8	15.7	7.0	10.4
Teachers, except postsecondary	624	280	344	270	326	—	—	—	—	38.5	48.3	99.3	94.8	70.4	48.5	45.0	39.9
Social scientists and urban planners	932	212	720	207	629	5	56	24	56	34.8	33.7	82.5	81.1	43.9	20.4	17.9	8.6
Social and recreation workers	109	103	6	103	6	—	—	—	—	43.8	25	100.0	100.0	91.3	66.7	32.0	66.7
Lawyers and judges	36 736	24 096	12 640	21 993	12 094	1 188	303	1 065	312	36.0	33.8	90.0	88.3	29.5	24.5	39.3	33.0
Writers, artists, entertainers, and athletes	682	304	378	275	346	10	32	18	—	37.7	35.0	92.4	85.2	54.9	26.5	36.2	6.6
Other professional specialty occupations	181 951	30 945	151 006	26 837	131 069	2 539	14 947	1 982	6 835	34.2	38.4	75.4	68.2	12.6	4.7	10.8	3.9
Technical, sales, and administrative support occupations	16 094	4 573	11 521	4 025	8 116	420	3 055	125	580	33.2	39.2	90.4	58.8	12.9	3.7	8.7	1.3
Technicians and related support occupations	10 794	381	10 413	2 323	7 136	58	2 937	12	548	34.4	50.8	74.5	55.9	8.4	2.6	—	0.3
Health technologists and technicians	10 465	249	10 216	203	6 982	46	2 906	12	523	33.7	33.7	75.9	55.4	6.4	2.6	—	0.1
Licensed practical nurses	329	132	197	120	154	12	31	—	25	36.3	37.7	72.0	85.8	12.1	2.5	—	8.6
Other health technologists and technicians	823	560	263	478	248	23	15	66	7	30.8	33.1	80.9	75.7	14.5	5.7	10.5	8.4
Engineering and science technicians	179	128	51	99	51	—	—	23	7	31.3	32.2	87.5	58.8	12.5	—	15.6	9.8
Electrical and electronic technicians	38	23	15	23	15	—	—	—	—	46.0	25	47.8	40.0	—	—	—	40.0
Industrial and mechanical engineering technicians	125	73	52	65	51	—	—	15	—	30.4	37.0	82.2	78.8	26.0	11.5	8.2	11.5
Drafting and surveying technicians	481	336	145	291	131	23	14	28	—	30.7	32.8	80.4	84.1	13.7	6.2	9.8	3.4
Other engineering and science technicians	4 477	3 632	845	3 224	732	339	103	47	25	33.5	27.6	93.5	89.6	13.1	17.2	9.4	11.4
Technicians, except health, engineering, and science	19	13	6	13	—	—	—	6	—	30.0	60.0	100.0	100.0	53.8	—	—	—
Airplane pilots and navigators	41	39	2	39	—	—	—	—	—	33.5	25	59.0	—	24.4	—	25.6	—
Air traffic controllers and broadcast equipment operators	175	82	93	66	86	—	7	—	—	25	26.0	100.0	—	—	—	—	—
Computer programmers	4 242	3 498	744	3 106	644	339	96	47	19	33.7	27.8	93.7	88.4	12.8	18.3	9.2	12.9
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																
Other personal services, including private household																

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States																		
Employed persons 16 years and over—Con.																		
Other personal services, including private household																		
Race			Black		Spanish origin¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed					
Total			White		Black		Male		Female		Male		Female		Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
23	23	36 561	20	29 493	3	3 785	—	3 213	25—	49 2	100.0	57.7	—	5.6	—	48.7	54.6	
62 858	26 997	21 235	21 235	3 278	3 221	686	480	374	30.1	46.6	30.8	58.4	6.9	8.3	18.3	12.5	—	
10 113	5 900	4 213	4 839	3 378	730	37	80	24	34.1	50.6	68.1	42.6	—	4.6	—	20.0	20.2	
342	416	129	306	86	47	23	—	—	30.0	49.8	100.0	26.2	—	6.6	—	13.2	—	
352	287	65	185	36	47	23	72	24	34.4	49.4	54.4	26.2	—	—	—	—	—	
33	33	91	25	36	—	—	8	—	39.4	43.3	43.3	59.4	—	—	38.3	40.6	—	
155	91	64	91	50	—	14	—	—	49.6	56.4	26.6	57.7	—	—	38.3	40.6	—	
51 233	19 232	32 001	15 498	25 990	2 342	3 020	2 046	2 790	52.0	49.7	45.0	57.7	4.8	7.2	40.0	40.5	—	
110	35	75	35	41	—	17	—	15	46.0	46.9	45.7	61.3	—	9.3	36.0	36.0	—	
77	77	42	42	—	35	—	—	—	25—	39.0	31.2	26.4	—	—	20.8	18.9	—	
538	53	54	450	44	59	9	16	—	43.5	37.6	68.4	47.8	13.1	7.1	7.4	18.2	5.6	
189	99	90	65	54	8	36	31	10	37.3	37.6	43.4	47.8	—	—	18.2	5.6	—	
233 505	105 296	128 209	77 416	76 674	20 414	40 249	10 098	15 074	37.1	43.5	54.6	40.1	4.3	1.4	15.6	4.0	—	
176 091	59 737	116 354	40 453	68 900	13 723	37 235	6 675	13 773	37.8	43.9	52.7	39.8	4.8	1.3	23.0	4.0	—	
168 551	58 568	109 983	39 587	64 335	13 506	35 348	6 508	12 835	34.8	43.9	52.6	39.5	4.8	1.3	23.3	4.1	—	
136	91	45	61	35	30	10	—	—	—	—	60.4	24.4	—	—	—	—	—	
28	—	28	—	28	—	—	—	—	—	—	—	53.6	—	—	—	—	—	
914	168	746	128	513	27	204	—	52	31.9	31.3	58.3	48.0	3.6	2.0	11.3	18.8	—	
892	325	567	249	462	60	80	13	38	30.8	34.7	84.9	72.8	16.0	5.8	11.4	6.0	—	
315	154	161	92	96	37	65	16	11	32.8	43.1	30.5	39.1	3.2	—	40.9	2.5	—	
10 271	324	9 947	225	7 200	2	1 661	63	1 013	36.5	48.7	39.2	48.9	2.8	2.5	16.4	4.6	—	
93 395	43 054	50 341	31 772	31 121	7 661	14 171	4 116	6 462	36.4	42.9	55.8	39.2	5.0	1.1	28.4	5.9	—	
89	21	68	17	37	4	19	—	6	25—	34.6	59.4	49.0	4.4	—	—	—	—	
217	192	25	142	11	28	14	22	—	44.3	56.1	59.4	37.7	4.2	—	4.7	—	—	
59 380	13 042	46 338	6 114	24 428	5 306	18 526	2 121	5 004	45.3	44.1	42.8	37.4	4.0	1.2	8.7	1.9	—	
2 914	1 197	1 717	787	969	301	598	146	249	33.2	42.9	41.9	36.6	3.8	1.1	9.4	3.8	—	
1 850	704	1 146	531	832	98	256	127	149	27.3	34.9	57.8	51.7	4.8	2.0	10.9	4.5	—	
252	235	17	186	17	20	—	40	—	29.4	25—	68.9	35.3	4.7	—	8.9	—	—	
35	15	20	4	15	—	—	—	5	30.0	31.7	86.7	75.0	—	—	13.3	35.0	—	
1 358	356	1 002	274	740	62	217	60	136	25—	34.1	52.5	52.6	4.5	—	3.9	2.1	—	
205	98	107	67	60	16	39	27	8	29.2	43.4	45.9	41.1	7.1	6.5	40.8	22.4	—	
5 690	465	5 225	335	3 248	119	1 631	40	390	31.2	45.9	49.0	42.2	6.7	1.1	5.8	0.9	—	
182	48	134	38	79	10	44	6	6	25.6	36.9	58.3	36.6	—	—	—	6.0	—	
5 508	417	5 091	297	3 169	109	1 587	34	384	32.1	46.1	48.0	42.3	7.4	1.2	6.5	0.7	—	
35 540	33 298	2 242	28 331	1 688	3 939	373	1 947	291	38.1	34.0	64.7	59.1	3.8	2.8	3.4	8.3	—	
34 943	32 792	2 151	27 977	1 645	3 792	340	1 919	272	38.3	33.9	64.9	59.5	3.8	2.9	3.3	8.6	—	
34 698	32 571	2 127	27 756	1 634	3 792	327	1 919	272	38.3	33.9	64.9	59.0	3.8	3.0	3.3	8.1	—	
17 207	16 118	1 089	13 526	850	1 973	156	1 112	163	34.7	32.4	62.6	57.8	3.9	2.2	2.9	3.9	—	
10 810	10 358	452	9 497	364	625	156	492	48	39.2	34.0	71.1	54.0	3.6	4.2	4.2	15.3	—	
6 681	6 095	586	4 733	420	1 194	115	315	61	47.8	37.8	59.7	65.2	3.8	5.8	2.6	10.2	—	
245	221	24	221	11	13	—	28	19	41.1	28.7	81.4	100.0	14.0	—	8.1	54.2	—	
597	506	91	354	43	147	33	35	28	29.1	40.2	54.0	51.6	0.8	—	8.5	—	—	
194	14	2	12	—	2	—	—	—	36.7	—	85.7	—	—	—	—	—	—	
76	67	9	44	9	23	—	—	—	31.8	31.4	34.3	22.2	—	—	20.9	—	—	
100	100	74	74	—	26	—	—	—	33.1	—	39.0	—	—	—	15.0	—	—	
407	325	82	224	34	96	33	28	19	27.9	41.2	61.2	54.9	—	—	4.3	—	—	
21 874	12 261	9 613	8 632	6 006	2 752	2 641	1 476	1 409	30.6	40.0	37.0	40.4	3.3	1.6	13.1	3.6	—	
78	60	18	52	7	8	11	5	—	35.6	30.6	88.3	72.2	10.0	—	10.0	11.1	—	
1 004	423	581	291	370	91	158	68	72	25—	34.8	24.6	41.8	0.9	—	2.1	4.5	—	
533	37	496	25	25	53	6	28	12	33.7	39.2	78.4	6.7	32.4	—	—	—	—	
1 828	1 198	630	869	344	283	251	110	19	25—	36.4	36.6	45.4	1.7	1.9	2.1	1.1	—	
1 279	659	620	480	474	125	127	69	12	35.2	42.1	30.5	43.2	4.9	—	12.9	7.9	—	
2 132	2 132	246	1 260	91	91	173	401	25—	32.8	40.4	37.5	43.0	3.0	0.7	1.1	0.3	—	
14 585	8 990	5 595	6 259	3 526	2 101	417	1 023	893	32.8	40.4	37.6	38.1	3.3	2.0	16.4	4.6	—	

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																	
Entertainment and recreation services																	
Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
Total		White		Black													
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over																	
1 007 070	599 746	407 324	523 409	365 735	49 361	27 058	37 228	16 680	31.2	30.9	71.3	73.6	18.6	14.4	12.1	7.7	
392 232	257 906	134 326	233 413	123 996	15 510	6 330	11 920	4 414	32.8	31.8	87.2	87.4	32.5	29.9	24.6	20.5	
147 670	101 269	48 601	93 144	44 430	5 520	2 892	3 596	1 512	36.9	35.0	86.0	85.2	31.5	24.2	11.9	8.2	
38	147	585	32	540	6	26	44	7	38.2	34.2	96.8	97.1	34.2	27.7	15.6	3.1	
1 732	1 147	911	1 081	540	20	19	53	50	35.3	33.1	95.8	97.0	64.1	38.2	0.5	3.1	
209	123	86	106	74	8	—	11	—	33.8	28.6	90.2	100.0	48.0	48.8	6.1	4.2	
2 895	1 916	979	1 746	877	108	72	95	24	36.4	33.8	84.3	81.2	33.5	25.6	9.0	4.8	
125 853	86 317	39 536	79 271	36 117	4 929	2 443	3 046	1 225	37.0	35.4	84.9	83.8	29.5	23.2	12.1	8.7	
111 035	75 550	35 485	69 257	32 285	4 402	2 318	2 636	1 143	35.7	34.3	85.7	83.8	30.6	24.1	—	85.1	
14 818	10 767	4 051	10 014	3 832	527	125	410	82	44.3	42.9	79.0	81.6	21.6	15.6	97.1	—	
15 995	9 491	6 504	8 724	5 965	429	332	347	206	35.5	34.2	92.4	92.7	42.0	27.2	13.1	6.3	
5 434	2 772	2 662	2 458	2 421	170	128	112	80	34.5	34.9	98.6	96.5	61.2	34.7	3.6	1.2	
2 564	1 605	959	1 448	818	103	76	68	74	34.3	31.8	85.2	89.5	28.4	20.1	4.7	5.2	
1 330	916	414	861	386	18	20	37	25	39.6	34.9	92.7	90.3	32.8	24.2	3.9	2.2	
186	131	55	114	26	7	23	—	—	44.0	29.8	83.2	72.7	19.8	47.3	—	—	
6 481	4 067	2 414	3 843	2 314	131	85	130	27	36.1	34.4	91.4	90.7	37.1	30.1	25.5	13.2	
242 362	156 637	85 725	140 269	79 566	9 990	3 438	8 324	2 902	31.2	30.4	87.9	88.6	33.1	33.1	32.8	27.6	
2 908	2 768	140	2 630	130	66	—	125	10	32.3	29.3	95.4	90.7	32.4	38.6	11.7	22.9	
164	136	28	123	18	7	—	123	4	35.4	29.3	85.3	100.0	57.4	89.3	7.4	—	
2 719	2 613	106	2 488	106	59	—	121	—	32.1	28.3	96.2	87.7	31.3	27.4	12.1	30.2	
129	125	4	108	4	—	—	21	—	34.3	30.0	83.2	100.0	50.4	100.0	—	—	
1 562	1 513	49	1 452	49	54	—	70	—	30.4	25	98.6	89.8	24.2	—	16.2	14.3	
166	156	10	145	10	—	—	11	—	31.8	40.0	97.4	100.0	45.5	100.0	2.6	—	
261	261	—	243	—	5	—	7	—	48.9	35.7	83.9	—	34.5	—	8.4	—	
601	558	43	540	43	—	—	12	—	34.3	35.7	98.0	81.4	41.0	34.9	7.9	58.1	
25	19	6	19	6	—	—	—	—	50.0	50.0	63.2	100.0	—	—	—	—	
295	216	79	149	79	54	—	13	—	36.4	32.6	100.0	100.0	60.6	60.8	—	10.1	
175	122	53	116	53	—	—	6	—	33.4	31.5	100.0	100.0	60.7	77.4	—	—	
67	36	24	28	24	—	—	8	—	57.5	33.6	83.3	100.0	38.9	22.6	22.2	—	
537	390	147	385	140	5	—	11	14	33.1	26.8	91.8	85.7	54.4	49.7	—	10.9	
55	44	11	44	11	—	—	5	—	33.4	47.1	100.0	100.0	52.3	100.0	—	—	
482	346	136	341	129	5	—	6	14	33.1	26.5	90.8	84.6	54.6	45.6	—	11.8	
673	580	93	537	172	25	—	15	—	35.5	37.6	99.8	100.0	72.4	58.1	47.1	15.1	
1 204	309	895	289	819	8	55	17	17	32.3	35.0	80.9	92.2	31.7	35.9	19.4	3.8	
546	88	458	88	458	—	—	11	—	29.1	41.0	77.3	98.7	44.3	31.0	8.0	3.1	
658	221	437	201	361	8	55	6	17	33.7	31.3	82.4	85.4	26.7	48.5	24.0	4.6	
51 814	20 435	31 379	18 819	30 156	561	595	884	756	30.4	30.5	91.1	86.8	31.0	23.6	23.9	34.5	
521	512	309	469	292	22	17	12	—	34.0	32.4	94.1	93.5	62.9	57.9	10.2	11.0	
5 775	2 543	3 232	1 383	2 431	986	617	189	270	27.3	27.9	77.2	85.7	26.5	31.4	2.8	0.6	
554	377	177	377	165	7	—	6	—	34.0	30.1	100.0	95.5	93.4	72.9	9.0	2.8	
175 377	127 078	48 299	114 000	44 413	8 158	2 068	6 962	1 792	31.3	30.4	87.3	89.7	32.8	38.5	35.8	26.1	
2 162	1 271	891	1 087	792	105	74	76	29	35.2	36.8	89.9	91.4	52.8	55.3	9.9	2.1	
183 486	53 617	129 869	48 420	118 290	3 143	7 173	2 677	5 539	30.6	30.0	75.3	74.7	17.7	8.9	4.4	1.4	
8 950	7 330	1 620	6 727	1 453	320	104	315	48	30.5	29.7	89.9	85.6	23.3	31.6	10.7	5.5	
327	150	177	150	155	—	18	5	—	31.3	34.6	72.7	64.4	26.7	31.4	11.3	2.8	
102	40	62	40	56	—	2	—	—	30.9	48.1	85.0	54.8	27.5	—	40.0	8.1	
225	110	115	110	99	—	16	5	—	31.7	30.8	68.2	69.6	26.4	20.9	0.9	—	
3 883	3 369	514	3 116	463	154	37	143	19	30.3	27.7	88.9	82.9	20.5	27.8	10.2	10.3	
2 634	2 382	252	2 202	238	113	—	61	19	29.5	25	89.0	77.4	17.4	18.3	6.9	15.9	
71	59	12	59	12	—	—	—	—	30.9	25.0	88.1	100.0	44.1	50.0	—	—	
385	263	122	235	122	4	—	28	—	33.6	37.6	93.5	94.3	22.4	41.0	9.5	—	
Other engineering and science technicians	793	665	128	620	91	37	37	—	31.4	29.8	86.6	81.3	28.6	32.0	22.9	10.2	
Technicians, except health, engineering, and science	4 740	3 811	929	3 461	835	166	49	167	25	30.6	29.9	91.5	91.2	25.7	37.1	11.1	3.4
Airplane pilots and navigators	143	141	2	141	2	—	6	—	31.5	25	100.0	100.0	36.9	—	—	—	
Air traffic controllers and broadcast equipment operators	1 757	1 604	153	1 491	148	52	—	83	—	29.5	27.9	89.4	100.0	21.4	39.2	16.2	5.2
Computer programmers	496	283	213	221	172	27	10	—	31.4	33.7	100.0	84.5	45.2	23.5	7.1	—	
Other technicians, except health, engineering, and science	2 344	1 783	561	1 608	513	87	39	78	25	31.4	29.3	91.4	91.3	25.6	41.9	8.1	4.3

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States											
Employed persons 16 years and over—Con.											
Technical, sales, and administrative support occupations—Con.											
Sales occupations											
Supervisors and proprietors, sales occupations											
Sales representatives, finance and business services											
Sales representatives, commodities, except retail											
Sales workers, retail and personal services											
Cashiers											
Other sales occupations, retail and personal services											
Sales related occupations											
Administrative support occupations, including clerical											
Supervisors, administrative support occupations											
Computer equipment operators											
Secretaries, stenographers, and typists											
Stenographers and typists											
Receptionists											
Other information clerks											
File clerks											
Other records processing occupations, except financial											
Bookkeepers, accounting, and auditing clerks											
Payroll and timekeeping clerks											
Other financial records processing occupations											
Telephone operators											
Mail and message distributing occupations											
Production coordinators and expeditors											
Traffic, shipping, and receiving clerks											
Stock and inventory clerks											
Other material recording, scheduling, and distributing clerks											
Adjusters and investigators											
Data-entry keyers											
Other administrative support occupations											
Service occupations											
Private household occupations											
Protective service occupations											
Other protective service occupations											
Service occupations, except protective and household											
Food preparation and service occupations											
Health service occupations											
Cleaning and building service occupations, except household											
Personal service occupations											
Farming, forestry, and fishing occupations											
Precision production, craft, and repair occupations											
Mechanics and repairers											
Supervisors, mechanics and repairers											
Automobile mechanics, including body											
Industrial machinery repairers											
Electronic repairers, communications and industrial equipment											
Heating, air conditioning, and refrigeration mechanics											
Other mechanics and repairers											
Construction trades											
Supervisors, construction occupations											
Carpenters											
Electricians											
Painters, construction and maintenance											
Plumbers, pipefitters, and steamfitters											
Other construction trades											
Both sexes											
Male											
Female											
Total											
Male											
Female											
White											
Male											
Female											
Black											
Male											
Female											
Spanish origin ¹											
Male											
Female											
Median age											
Male											
Female											
Percent high school graduates											
Male											
Female											
Percent completed 4 or more years of college											
Male											
Female											
Percent self-employed											
Male											
Female											

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

Employed persons 16 years and over—Con.

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Professional and related services, total											
	Race				Black		Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Male	Female	Male	Female	Male	Female	Male	Female
	Both sexes	Male	Female	Male								
Employed persons 16 years and over	19 811 819	6 667 007	13 144 812	5 745 175	10 974 426	6 177 823	1 682 576	533 413	37.5	35.8	87.9	86.7
Managerial and professional specialty occupations	9 861 509	4 282 124	5 579 385	3 892 245	4 854 113	228 143	538 475	154 801	39.1	35.8	82.3	86.7
Executive, administrative, and managerial occupations	1 560 060	882 770	677 290	804 713	592 913	53 295	63 564	21 208	41.2	39.4	72.4	96.8
Officials and administrators, public administration	448	413	35	357	35	—	—	—	46.3	35.7	32.0	93.6
Financial managers	24 566	15 859	8 707	14 859	8 014	464	441	202	38.4	39.8	79.1	85.7
Managers, marketing, advertising, and public relations	8 956	5 839	3 117	5 627	2 953	88	129	61	40.4	36.3	62.3	95.2
Administrators, education and related fields	371 677	230 567	141 110	206 779	118 825	19 339	18 388	4 420	44.4	41.4	97.7	95.7
Managers, medicine and health	106 256	52 246	54 010	47 255	47 081	3 727	5 311	1 385	41.6	40.8	95.7	93.5
Other specified managers	36 009	20 399	15 610	18 110	13 426	1 845	1 779	485	41.6	39.0	94.4	91.1
Managers and administrators, n.e.c.	572 449	277 721	294 728	251 102	261 828	17 475	24 852	9 106	42.2	40.5	93.6	91.1
Self-employed	552 349	269 106	283 243	243 007	251 504	17 167	24 080	8 783	42.1	40.3	92.7	86.7
Self-employed, related occupations	20 100	8 615	11 485	8 095	10 324	308	772	297	45.2	44.7	59.7	59.7
Management related occupations	439 699	279 726	159 973	260 624	12 664	10 308	12 664	7 602	36.0	34.4	97.6	96.2
Accountants and auditors	305 197	211 484	93 713	200 377	85 060	4 602	4 330	4 287	34.8	33.4	99.0	97.5
Personnel, training, and labor relations specialists	50 153	20 034	30 119	16 287	23 844	2 895	5 106	1 132	38.8	35.2	92.9	93.5
Buyers and purchasing agents	21 269	10 436	10 833	9 393	9 818	714	777	409	41.9	39.7	94.7	93.5
Inspectors and compliance officers	14 101	11 183	2 918	9 911	8 848	579	579	157	41.8	34.9	90.5	88.7
Other management related occupations	48 979	26 589	22 390	24 656	19 755	1 249	1 872	725	39.5	35.6	94.2	96.6
Professional specialty occupations	8 301 449	3 399 354	4 902 095	3 087 532	4 261 200	174 848	474 911	99 100	38.6	35.3	84.9	97.2
Engineers, architects, and surveyors	268 676	256 159	12 517	234 388	11 141	5 189	560	1 222	39.1	31.3	98.0	98.1
Architects	69 587	64 718	4 869	60 359	4 440	1 204	1 61	2 287	39.7	31.3	98.0	98.1
Engineers	179 892	172 810	7 082	155 999	6 170	3 680	382	4 265	37.8	31.5	98.5	99.6
Civil engineers	48 702	47 211	1 491	42 256	1 275	971	73	1 237	37.8	30.4	98.9	96.2
Electrical and electronic engineers	25 532	24 744	788	22 696	713	585	37	560	39.3	29.2	96.5	96.6
Industrial engineers	5 363	4 577	786	4 219	683	195	68	103	44.6	32.9	96.3	97.7
Mechanical engineers	16 948	16 552	396	15 029	326	491	50	458	40.9	30.0	95.5	92.2
Other engineers	83 347	79 726	3 621	71 799	3 173	1 438	154	1 907	40.7	32.2	98.9	98.5
Surveyors and mapping scientists	19 197	18 631	566	18 030	531	305	17	34	33.5	29.6	97.0	94.9
Computer systems analysts and scientists	15 241	10 917	4 324	10 046	3 793	332	246	319	33.6	31.6	98.8	98.1
Operations and systems researchers and analysts	6 678	4 318	2 360	3 942	1 779	207	207	138	37.7	34.1	97.9	95.6
Mathematical scientists	8 805	5 098	3 707	4 719	3 310	122	223	87	32.9	32.9	98.7	98.7
Natural scientists	72 530	51 441	21 089	46 142	18 184	1 547	1 086	1 114	35.9	32.4	98.0	98.0
Chemists, except biochemists	11 510	8 326	3 174	6 995	2 600	327	126	235	32.7	32.9	98.0	98.9
Other natural scientists	61 020	43 105	17 915	39 147	15 584	1 220	960	879	36.2	32.4	98.8	97.9
Health diagnosing occupations	594 360	526 519	67 841	474 430	51 300	13 020	3 581	2 945	42.9	34.7	97.9	98.6
Health assessment and treating occupations	1 490 143	1 31 940	1 58 003	1 10 639	1 01 669	13 579	105 792	6 321	32.0	34.6	96.0	97.2
Registered nurses	1 194 941	1 08 006	1 146 935	40 231	1 012 173	4 985	82 648	2 428	32.4	35.3	97.3	98.1
Other health assessment and treating occupations	295 202	83 934	211 268	70 408	179 496	8 594	23 144	3 893	31.8	31.6	95.3	91.8
Teachers, except postsecondary	3 523 197	1 010 239	2 512 958	915 454	2 179 072	71 038	275 686	28 921	36.5	35.8	88.5	88.5
Social scientists and urban planners	95 408	50 931	44 477	47 430	39 641	2 200	3 652	1 416	35.7	35.5	98.9	97.6
Social and recreation workers	305 981	98 423	207 558	76 671	162 328	15 989	36 575	6 996	33.7	34.4	94.8	93.9
Lawyers and judges	385 898	340 965	44 933	331 495	41 819	5 698	2 047	4 919	38.7	31.9	99.7	98.4
Writers, artists, entertainers, and athletes	244 132	128 260	115 872	118 203	109 204	5 355	3 751	4 103	34.9	35.7	95.8	95.8
Other professional specialty occupations	1 290 400	784 144	506 256	713 753	447 960	40 556	41 258	14 304	41.2	37.4	96.9	96.9
Technical, sales, and administrative support occupations	5 010 006	2 746 457	4 263 549	3 640 023	78 730	444 146	190 570	34 342	30.3	34.2	91.2	91.6
Technicians and related support occupations	1 271 881	674 920	596 960	518 248	644 453	28 432	115 073	29 087	30.6	32.9	94.7	93.0
Health technologists and technicians	898 482	492 905	405 577	354 398	474 453	17 465	105 542	24 826	31.6	32.4	94.2	92.5
Licensed practical nurses	397 802	12 547	385 255	9 335	306 098	2 547	67 010	12 698	33.9	35.1	90.0	90.6
Other health technologists and technicians	500 680	120 338	380 342	95 063	324 097	15 118	38 533	7 941	31.5	31.1	94.7	94.4
Engineering and science technicians	193 468	144 954	48 514	129 740	42 047	6 779	3 632	6 816	30.0	26.7	93.6	94.9
Electrical and electronic technicians	15 610	13 419	2 191	12 106	1 683	644	405	109	33.8	29.8	93.7	91.2
Industrial and mechanical technicians	2 093	1 720	373	1 560	357	92	9	30	41.0	32.9	97.8	91.7
Drafting and surveying technicians	101 431	86 657	14 774	78 049	13 242	3 525	641	4 682	30.1	27.8	93.3	94.7
Other engineering and science technicians	74 334	43 158	31 176	38 025	26 765	2 518	2 577	1 522	28.2	25.8	95.1	95.4
Technicians, except health, engineering, and science	179 931	97 062	82 869	84 110	72 218	3 988	5 897	3 328	30.0	30.3	96.9	96.8
Airplane pilots and navigators	610	550	60	537	52	—	—	—	36.2	33.5	96.7	100.0
Air traffic controllers and broadcast equipment operators	2 759	1 931	828	1 734	711	177	783	74	25	25	92.5	94.2
Computer programmers	35 352	23 225	12 127	21 101	10 481	720	89	410	28.3	29.0	97.8	97.8
Other technicians, except health, engineering, and science	141 210	71 356	69 854	60 738	40 974	3 080	5 016	2 513	30.5	30.5	96.8	96.8

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Professional and related services, total													
United States													
Employed persons 16 years and over—Con													
Technical, sales, and administrative support occupations—Con.													
Sales occupations													
Supervisors and proprietors, sales occupations													
Self-employed													
Sales representatives, finance and business services													
Sales representatives, commodities, except retail													
Sales workers, retail and personal services													
Cashiers													
Other sales occupations, retail and personal services													
Sales related occupations													
Administrative support occupations, including clerical													
Supervisors, administrative support occupations													
Computer equipment operators													
Secretaries, stenographers, and typists													
Stenographers and typists													
Receptionists													
Other information clerks													
File clerks													
Other records processing occupations, except financial													
Bookkeepers, accounting, and auditing clerks													
Payroll and timekeeping clerks													
Other financial records processing occupations													
Telephone operators													
Mail and message distributing occupations													
Production coordinators and expeditors													
Traffic, shipping, and receiving clerks													
Stock and inventory clerks													
Other material recording, scheduling, and distributing clerks													
Adjusters and investigators													
Data-entry keyers													
Other administrative support occupations													
Service occupations													
Private household occupations													
Protective service occupations													
Guards													
Other protective service occupations													
Service occupations, except protective and household													
Food preparation and service occupation													
Health service occupations													
Cleaning and building service occupations, except household													
Personal service occupations													
Farming, forestry, and fishing occupations													
Precision production, craft, and repair occupations													
Mechanics and repairers													
Supervisors, mechanics and repairers													
Automobile mechanics, including body													
Industrial machinery repairers													
Electronic repairers, communications and industrial equipment													
Heating, air conditioning, and refrigeration mechanics													
Other mechanics and repairers													
Construction trades													
Supervisors, construction occupations													
Carpenters													
Electricians													
Painters, construction and maintenance													
Plumbers, pipefitters, and steamfitters													
Other construction trades													

Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States															
Professional and related services, total															
Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
Total		White		Black											
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over—Con.															
Precision production, craft, and repair occupations—Con.															
Extraction occupations															
Precision production occupations															
Supervisors, production occupations															
Precision metalworking occupations															
Tool and die makers															
Machinists															
Other precision metal workers															
Sheet metal workers															
Other precision metal workers															
Precision textile, apparel, and furnishings machine workers															
Precision food production occupations															
Precision inspectors, testers, and related workers															
Plant and system operators															
Other precision production occupations															
Operators, fabricators, and laborers															
Machine operators, assemblers, and inspectors															
Machine operators and tenders, except precision															
Metalworking and plastic working machine operators															
Fabricating machine operators, n.e.c.															
Metal and plastic processing and woodworking machine operators															
Printing machine operators															
Textile machine operators															
Textile sewing machine operators															
Laundry and dry cleaning machine operators															
Packaging and filling machine operators															
Furnace, kiln, and oven operators, except food															
Other specified machine operators															
Miscellaneous and not specified machine operators															
Fabricators, assemblers, and hand working occupations															
Welders and others															
Solders and brazers															
Assemblers															
Hand working occupations															
Production inspectors, testers, samplers, and weighers															
Graders and sorters, except agricultural															
Other production inspectors, testers, samplers, and weighers															
Transportation and material moving occupations															
Transportation occupations															
Motor vehicle operators															
Truck drivers															
Driver-sales workers															
Other motor vehicle operators															
Rail and water transportation occupations															
Material moving occupations															
Supervisors, material moving equipment operators															
Crane, hoist and winch operators															
Excavating, grading, and dozer machine operators															
Other material moving equipment operators															
Handlers, equipment cleaners, helpers, and laborers															
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.															
Helpers, craft and production															
Construction laborers															
Freight, stock, and material handlers															
Garage and service station occupations, and equipment cleaners															
Hand packers and packagers															
Laborers, except construction															

¹Persons of Spanish origin may be of any race

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States																				
Race						Hospitals				Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed						
Total			White			Black		Spanish origin ¹		Median age		Male		Female		Male		Female		
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over																				
4 424 547	1 033 823	3 390 724	783 158	2 650 825	176 100	577 742	72 241	142 612	33.8	34.5	81.7	84.7	36.2	18.4	1.4	0.3				
1 589 138	393 552	1 195 586	334 688	1 027 038	27 906	103 715	18 143	29 380	34.5	33.8	97.4	97.2	73.7	38.7	3.4	0.6				
193 092	98 420	96 672	85 541	83 048	7 673	10 681	3 520	3 087	39.6	39.4	95.3	93.6	60.5	32.5	0.6	0.3				
148	51	97	47	47	12	10	153	67	47.9	47.9	94.7	95.0	32.5	32.5						
7 932	5 148	2 784	4 871	2 557	106	152	153	67	37.4	37.4	99.6	100.0	32.5	32.5						
386	337	49	334	238	81	113	12	25	35.5	35.4	97.0	100.0	41.4	41.4	0.1	0.2				
1 276	677	599	618	436	24	93	21	25	39.8	42.2	97.2	97.9	42.7	49.5	0.7	—				
67 297	35 092	32 205	31 288	27 690	2 946	3 641	1 023	1 023	40.6	40.0	96.0	92.3	66.8	41.4	1.0	0.5				
10 919	6 162	4 757	5 326	4 171	97	107	39	40	39.4	40.0	94.1	95.6	37.5	39.0	0.1	—				
62 193	30 946	31 247	27 718	26 774	2 272	3 543	1 223	1 020	40.9	40.0	93.3	91.8	54.9	30.7	0.4	0.3				
61 894	30 826	31 068	27 601	26 621	2 272	3 517	1 204	1 002	40.8	39.9	93.5	91.8	54.9	30.7	0.4	0.3				
299	120	179	117	153	26	36	19	18	48.6	42.9	86.7	84.9	60.0	36.9	100.0	51.4				
42 543	17 910	24 633	15 287	20 943	1 556	2 712	906	833	34.8	35.7	96.0	94.0	54.3	22.2	0.5	0.2				
16 728	8 086	8 642	6 976	7 342	425	762	419	271	33.1	34.1	99.4	96.3	71.6	28.0	0.2	0.2				
10 441	3 089	7 352	2 396	5 950	614	1 138	166	225	35.6	36.0	91.1	92.7	48.8	25.3	0.4	0.3				
9 753	4 486	5 267	3 997	4 811	316	405	206	137	37.9	39.4	94.0	92.0	24.5	7.7	—	0.1				
636	462	174	340	171	101	50	32	30	46.5	30.9	99.1	94.2	29.0	42.5	—	—				
4 985	1 787	3 198	1 340	1 858	100	357	83	200	40.3	35.8	99.1	94.2	66.3	22.7	3.1	0.5				
Professional specialty occupations																				
1 396 046	297 132	1 098 914	249 147	943 990	20 233	93 034	14 623	26 293	33.6	33.5	98.1	97.5	78.0	39.2	4.3	0.6				
5 568	4 974	594	4 489	502	265	53	188	20	39.6	33.1	93.6	96.8	39.6	41.9	0.9	1.0				
256	220	36	198	25	11	5	5	5	38.7	32.2	97.3	100.0	70.0	61.1	3.6	—				
5 300	4 750	550	4 287	469	254	48	183	20	39.6	33.3	93.5	96.5	38.2	39.8	0.8	1.1				
Civil engineers	463	454	9	412	4	25	22	22	38.1	46.0	94.5	77.8	46.3	—	—	—				
Electrical and electronic engineers	706	699	7	615	2	45	68	—	40.1	25	95.3	100.0	33.2	28.6	—	—				
Industrial engineers	727	149	635	129	59	12	25	12	43.2	35.9	91.6	100.0	35.9	24.2	—	—				
Mechanical engineers	893	877	16	779	16	52	35	—	41.5	40.7	86.8	62.5	18.4	62.5	0.6	—				
Other engineers	2 362	1 993	369	1 846	318	73	33	8	37.7	32.2	96.2	97.0	47.6	46.3	1.7	1.6				
Surveyors and mapping scientists	12	4	8	1	8	—	—	—	50.0	50.0	100.0	100.0	100.0	—	—	—				
Computer systems analysts and scientists	2 053	1 286	767	1 081	696	100	56	32	34.4	32.3	96.7	98.4	49.2	45.2	0.5	—				
Operations and systems researchers and analysts	976	548	428	318	230	41	93	15	34.1	34.4	95.1	96.7	61.5	40.7	—	—				
Mathematical scientists	998	382	616	352	544	5	48	—	34.4	32.9	100.0	99.2	74.1	36.9	—	—				
Natural scientists	17 492	9 839	7 653	6 069	5 584	609	533	392	38.6	33.9	99.1	97.6	90.7	69.2	1.9	0.5				
Chemists, except biochemists	2 261	1 384	877	996	696	111	48	75	38.4	36.0	98.3	99.4	90.2	84.6	—	—				
Other natural scientists	15 231	8 455	6 776	7 208	5 667	498	485	317	38.6	33.7	99.2	97.4	90.8	67.2	2.2	0.6				
Health diagnosing occupations	170 421	138 380	32 041	115 245	22 091	4 738	82 784	7 193	34.6	32.8	99.6	99.2	98.0	90.2	7.8	3.9				
Health assessment and treating occupations	1 106 464	106 389	1 000 075	88 376	866 153	11 384	82 784	5 345	31.7	33.5	96.4	97.5	52.5	35.4	1.0	0.5				
Registered nurses	918 879	41 739	877 140	34 912	765 144	4 049	67 248	2 189	32.1	33.8	97.3	98.3	46.8	33.3	1.4	0.5				
Other health assessment and treating occupations	187 585	64 650	122 935	53 464	101 009	15 536	15 536	3 156	31.4	31.1	95.7	91.5	56.2	50.6	0.7	0.5				
Teachers, except postsecondary	10 775	2 629	8 146	2 245	7 050	254	892	84	34.0	35.3	95.1	96.6	70.9	68.5	0.7	1.1				
Social scientists and urban planners	20 332	11 565	9 041	10 225	7 231	935	1 565	399	33.6	33.2	98.1	94.1	85.6	70.3	1.3	1.3				
Social and recreation workers	38 433	10 728	27 505	9 161	22 448	1 308	4 058	611	34.1	34.2	98.5	97.2	80.5	81.7	0.6	0.3				
Lawyers and judges	663	413	250	355	169	41	36	—	38.1	32.4	100.0	98.0	92.5	69.6	2.7	—				
Writers, artists, entertainers, and athletes	9 053	3 367	5 686	3 016	5 159	208	286	169	34.7	33.7	94.4	93.7	48.5	51.6	2.4	1.3				
Other professional specialty occupations	12 818	6 712	6 106	6 130	5 266	345	618	177	43.2	38.7	97.5	94.3	86.2	65.6	2.5	0.5				
Technical, sales, and administrative support occupations																				
1 422 776	187 622	1 235 154	140 839	1 002 753	31 481	183 578	14 240	52 743	31.4	33.3	90.6	90.5	28.1	10.5	0.3	0.2				
Technicians and related support occupations	654 214	115 818	538 396	90 162	428 950	16 196	85 710	7 455	31.5	32.8	94.2	92.4	34.7	16.1	0.3	0.3				
Health technologists and technicians	628 748	102 959	525 789	79 492	418 878	15 082	83 957	6 800	31.5	32.8	94.1	92.4	33.5	15.7	0.3	0.3				
Licensed practical nurses	281 695	10 102	271 593	7 438	209 960	2 089	52 094	497	33.1	34.7	90.4	91.3	9.9	3.0	0.7	0.5				
Other health technologists and technicians	347 053	92 857	254 196	72 054	208 918	12 993	31 863	6 303	31.3	31.1	94.5	93.5	36.1	29.2	0.3	0.1				
Engineering and science technicians	8 861	5 161	3 700	4 322	2 866	561	653	269	32.1	31.7	92.1	89.9	24.7	27.2	0.4	0.1				
Electrical and electronic technicians	2 382	1 941	641	1 702	478	123	119	113	31.5	32.6	95.3	88.5	15.9	21.5	0.3	—				
Industrial and mechanical engineering technicians	344	201	143	167	129	4	37	8	20	45.6	32.5	68.2	20.4	19.6	—	—				
Drafting and surveying technicians	859	608	251	499	189	73	37	9	30.7	34.4	91.3	89.6	21.4	19.5	1.0	—				
Other engineering and science technicians	5 076	2 411	2 665	1 944	2 070	351	470	91	32.3	31.3	91.7	90.0	32.9	29.6	0.3	0.1				
Technicians, except health, engineering, and science	16 605	7 698	8 907	6 338	7 206	553	1 120	386	31.2	30.7	96.9	93.3	56.5	38.9	0.1	—				
Airplane pilots and navigators	44	23	21	17	13	6	—	10	37.1	40.6	73.9	100.0	38.1	—	—	—				
Air traffic controllers and broadcast equipment operators	227	94	133	77	111	17	22	5	30.2	25	91.5	90.2	31.9	3.8	—	—				
Computer programmers	4 416	2 742	1 674	2 463	1 118	115	118	119	30.5	30.5	98.4	96.5	42.4	34.3	0.2	0.2				
Other technicians, except health, engineering, and science	11 918	4 839	7 079	3 781	5 621	415	980	252	31.8	31.1	96.3	92.6	65.2	40.6	0.1	—				

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Hospitals											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Black		Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.												
Sales occupations	20 817	2 649	18 148	2 482	444	2 482	243	1 057	33.6	38.6	83.3	77.9
Supervisors and proprietors, sales occupations	942	524	440	78	48	78	22	22	33.8	46.1	87.0	85.2
Salaries	962	524	460	355	48	78	22	22	33.8	46.1	87.0	85.2
Self-employed	86	28	22	58	6	6	—	—	36.7	35.4	92.9	12.1
Sales representatives, finance and business services	14	14	14	—	—	—	—	—	32.8	35.4	100.0	62.3
Sales representatives, commodities, except retail	19 689	2 071	17 618	14	382	2 598	209	1 085	33.2	38.4	82.4	77.7
Sales workers, retail and personal services	16 053	1 548	11 974	226	226	2 336	150	929	31.3	37.7	79.2	21.9
Cashiers	3 636	1 066	875	2 244	154	262	59	106	34.8	42.3	85.4	75.4
Other sales occupations, retail and personal services	66	32	12	28	8	6	12	106	30.0	32.2	62.5	100.0
Sales related occupations	747 745	69 135	678 610	48 680	14 841	95 186	6 542	33 397	31.1	33.7	84.9	89.3
Administrative support occupations, including clerical	36 998	8 868	28 130	6 805	1 621	4 160	571	1 350	36.9	40.2	88.8	90.4
Supervisors, administrative support occupations	14 193	3 687	10 506	2 593	596	348	250	348	28.8	30.4	96.1	92.4
Computer equipment operators	251 289	3 449	247 840	2 593	647	29 058	281	10 129	30.3	33.0	90.4	93.7
Secretaries, stenographers, and typists	204 464	2 122	202 342	1 642	331	21 781	178	7 479	30.1	33.1	90.2	93.9
Stenographers and typists	46 825	1 327	45 498	951	316	7 277	103	2 650	30.3	32.4	90.6	92.6
Receptionists	72 881	3 655	69 226	2 510	58 025	787	8 306	4 490	29.6	33.1	89.4	89.0
Other information clerks	8 482	1 553	6 929	957	545	358	148	358	29.6	34.5	82.7	78.6
File clerks	18 022	3 054	14 968	1 823	10 867	893	3 344	1 104	26.5	26.8	85.2	86.7
Other records processing occupations, except financial	43 624	3 365	40 259	2 261	33 416	735	308	1 960	31.4	33.1	86.0	89.9
Bookkeepers, accounting, and auditing clerks	31 846	2 521	29 325	1 968	26 049	271	200	1 096	33.3	36.3	92.8	91.7
Payroll and timekeeping clerks	6 231	517	5 714	387	5 009	82	23	187	34.3	36.6	88.2	94.4
Other financial records processing occupations	18 101	989	17 112	507	14 792	293	91	960	30.5	33.3	88.4	91.7
Telephone operators	26 605	646	25 959	499	23 086	87	65	759	26.1	28.6	89.0	75.8
Mail and message distributing occupations	10 285	4 200	6 085	2 719	1 105	1 546	611	313	28.4	30.4	90.5	88.1
Production coordinators and expeditors	4 122	879	3 243	683	169	747	54	131	33.1	32.7	87.7	87.9
Traffic, shipping, and receiving clerks	3 764	2 819	945	2 153	506	176	255	66	30.7	31.6	79.0	83.9
Stock and inventory clerks	35 217	13 848	21 369	9 740	3 128	4 800	1 250	1 215	30.8	31.4	77.6	68.6
Other material recording, scheduling, and distributing clerks	4 240	847	3 393	578	2 585	204	47	216	30.1	31.4	77.1	79.5
Other material recording, scheduling, and distributing clerks	8 785	1 377	7 408	1 197	6 245	487	136	487	34.3	33.5	93.4	92.8
Data-entry keyers	12 174	700	11 474	466	159	2 199	57	572	30.1	31.0	96.3	91.9
Other administrative support occupations	140 886	12 162	128 724	8 075	2 956	24 856	1 265	7 656	30.6	33.5	86.6	87.1
Service occupations	1 240 883	331 626	909 257	210 708	586 620	277 114	31 791	56 191	32.6	38.4	64.0	62.3
Private household occupations	30 504	28 136	2 368	21 210	5 946	818	1 836	124	42.1	32.1	72.8	75.0
Protective service occupations	27 850	25 575	2 275	19 143	5 512	808	1 714	118	41.8	31.9	71.8	75.0
Guards	2 654	2 561	93	2 067	434	10	122	6	44.8	38.2	82.2	74.2
Other protective service occupations	1 210 379	303 490	906 889	189 498	585 134	92 522	29 955	56 067	32.1	38.5	63.2	62.2
Food preparation and service occupations	147 404	43 879	103 525	26 538	13 441	28 441	5 235	5 769	29.5	42.9	50.7	49.2
Health service occupations	787 024	138 382	648 642	89 113	41 473	193 397	10 244	35 194	30.0	36.0	36.7	42.2
Cleaning and building service occupations, except household	257 957	116 276	141 681	70 755	36 110	50 808	13 946	14 335	37.2	45.8	51.5	38.0
Personal service occupations	17 994	4 953	13 041	3 092	1 498	3 650	530	769	33.0	41.9	67.7	62.2
Farming, forestry, and fishing occupations	6 461	5 906	555	4 550	964	68	556	9	35.1	25—	54.8	73.0
Precision production, craft, and repair occupations	82 160	73 823	8 337	63 889	7 172	2 049	3 719	562	43.4	45.2	69.4	65.2
Mechanics and repairers	20 893	19 877	1 016	17 339	1 634	259	1 095	743	40.0	33.4	72.6	74.3
Supervisors, mechanics and repairers	1 546	1 399	147	1 292	50	13	91	43	46.9	38.6	67.9	87.8
Automobile mechanics, including body	834	788	54	612	104	78	75	9	40.7	32.0	51.9	95.7
Industrial machinery repairers	5 927	5 832	95	5 221	361	20	337	—	39.8	30.7	70.4	61.1
Electronic repairers, communications and industrial	1 186	984	202	796	141	46	49	21	34.5	28.5	83.0	83.2
Heating, air conditioning, and refrigeration mechanics	3 657	3 539	118	3 052	371	59	197	—	38.9	35.0	76.8	58.5
Other mechanics and repairers	7 743	7 335	408	6 366	601	121	346	13	39.8	34.2	74.0	75.2
Construction trades	34 212	33 629	583	29 693	2 907	165	1 707	33	44.1	37.2	65.1	70.3
Supervisors, construction occupations	3 048	2 910	138	2 755	121	76	109	8	48.5	37.4	71.5	77.5
Carpenters	8 113	8 022	91	7 345	666	25	379	8	46.4	45.8	61.0	46.2
Electricians	8 301	8 215	86	7 302	629	20	357	13	38.8	35.0	78.7	91.9
Painters, construction and maintenance	7 210	7 004	206	5 853	885	54	140	4	45.8	37.1	52.8	67.0
Plumbers, pipefitters, and steamfitters	5 894	5 888	6	5 212	503	6	220	—	42.9	47.5	66.9	—
Other construction trades	1 646	1 590	56	1 226	303	12	112	—	44.0	30.9	50.4	26.8
Persons of Spanish origin may be of any race.												

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																
Hospitals																
Race						Median age			Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
Total			White		Black		Spanish origin¹		Male		Female		Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con																
Precision production, craft, and repair occupations—Con																
Extraction occupations	16	20 311	6	16 851	2 431	5	—	486	30 0	35 0	100 0	100 0	7 5	8 2	—	—
Precision production occupations	27 039	20 311	6 728	16 851	2 431	5	—	486	30 0	35 0	100 0	100 0	7 5	8 2	—	—
Supervisors, production occupations	1 693	4 144	3 549	3 280	2 616	795	188	195	45 6	47 3	73 3	63 0	12 2	11 9	0 2	—
Precision metalworking occupations	1 543	4 401	1 444	3 280	2 616	795	188	195	45 6	47 3	73 3	63 0	12 2	11 9	0 2	—
Tool and die makers	38	35	3	35	104	33	70	9	59 2	60 4	14 7	10 0	2 8	3 0	0 5	—
Mechanics	38	35	3	35	104	33	70	9	59 2	60 4	14 7	10 0	2 8	3 0	0 5	—
Other metal workers	716	94	7	597	69	18	18	—	44 7	56 1	72 8	70 5	14 3	13 8	1 0	—
Precision machine workers	233	226	7	177	40	13	34	—	47 5	50 1	66 4	60 0	3 8	10 0	—	—
Other precision metal and tooling machine workers	464	424	40	359	25	15	18	—	40 0	39 0	73 6	70 0	1 4	12 5	—	—
Precision plastic, rubber, and finishing machine workers	1 470	1 161	309	1 02	960	37	268	197	51 1	57 0	59 9	35 1	5 0	2 1	—	—
Precision food and kindred occupations	2 538	1 320	1 218	920	780	358	416	28	49 8	50 1	58 8	44 7	1 2	1 1	0 5	—
Precision inspectors, testers, and related workers	56	46	10	35	10	35	—	—	52 0	35 0	69 0	50 0	1 2	1 1	—	—
Plant and system operators	12 265	12 178	87	10 511	75	12	453	7	46 0	38 9	74 3	77 0	6 8	8 0	0 1	—
Other precision production occupations	1 472	1 061	411	835	252	96	83	50	39 1	35 1	88 7	83 5	11 3	13 4	—	—
Operators, fabricators, and laborers																
Machine operators, assemblers, and inspectors	83 129	41 294	41 835	28 484	28 028	10 109	11 218	3 792	35 2	43 7	61 2	47 5	4 5	1 6	0 1	0 1
Machine operators and tenders, except precision	58 016	22 318	35 700	15 908	24 423	4 835	9 102	2 101	36 9	44 9	59 3	45 4	4 7	1 5	0 1	0 1
Metalworking and plastic working machine operators	55 438	20 990	34 448	14 852	23 714	4 616	8 668	1 974	36 7	45 1	58 9	44 6	4 6	1 3	0 1	0 1
Fabricating machine operators, n e c	125	83	42	54	38	23	8	—	39 5	29 2	44 6	88 1	8 4	19 0	—	—
Metal and plastic processing and woodworking machine operators	19	11	8	11	8	—	—	6	44 2	25—	54 5	100 0	—	100 0	—	—
Printing machine operators	180	57	123	41	79	10	41	—	32 5	46 1	52 6	15 4	—	4 1	—	—
Textile machine operators	2 377	1 490	887	1 196	796	225	85	106	33 6	32 9	80 1	76 2	8 8	3 6	—	—
Textile sewing machine operators	80	25	55	13	28	5	19	21	46 1	28 6	40 0	69 1	—	—	—	—
Laundry and dry cleaning machine operators	2 486	40	2 446	30	1 882	5	401	13	56 7	56 1	85 0	42 5	20 0	1 7	—	0 1
Packaging and filling machine operators	29 174	8 237	20 937	4 929	13 989	2 391	5 419	1 201	35 2	46 7	47 0	36 4	2 5	0 9	0 1	0 1
Furnace, kiln, and oven operators, except food	77	17	60	4	60	13	—	—	47 5	28 8	63 5	61 7	23 5	—	—	—
Other specified machine operators	5 875	5 817	58	5 106	47	589	11	184	45 2	43 4	62 1	32 8	2 8	—	—	—
Miscellaneous and not specified machine operators	6 638	2 762	3 876	1 950	2 529	554	1 172	294	34 2	37 7	66 9	52 8	9 7	1 7	—	0 3
Fabricators, assemblers, and hand working occupations	8 407	2 451	5 956	1 518	4 258	806	1 520	151	30 2	39 6	70 3	64 5	7 7	1 7	0 5	—
Welders and others	1 989	1 037	952	804	529	190	335	104	39 9	34 6	61 0	68 0	3 3	2 4	—	—
Solders and brazers	578	578	—	510	5	54	13	32	42 8	—	61 4	—	—	—	—	—
Assemblers	18	—	18	—	5	—	—	—	41 4	—	—	—	—	—	—	—
Hand working occupations	1 251	370	881	210	519	136	274	41	35 9	33 7	60 8	71 2	9 2	2 6	—	—
Production inspectors, testers, samplers, and weighers	142	89	53	84	5	29	48	—	29 5	47 8	59 6	30 2	—	—	—	—
Graders and sorters, except agricultural	591	291	300	252	180	29	99	23	42 6	43 0	57 7	58 0	19 2	15 0	—	—
Other production inspectors, testers, samplers, and weighers	232	104	128	82	69	12	46	15	25—	43 0	57 7	32 8	—	—	—	—
Transportation and material moving occupations	359	187	172	170	111	17	53	8	45 1	42 2	90 9	76 7	29 9	26 2	—	—
Transportation occupations	13 562	11 404	2 158	7 526	1 314	3 236	744	1 010	35 2	32 3	63 6	69 9	3 6	3 7	0 1	0 2
Motor vehicle operators	12 076	10 082	1 994	6 583	1 203	2 906	698	920	32 6	31 8	62 6	69 9	3 6	3 1	0 1	0 3
Truck drivers	11 998	10 031	1 967	6 538	1 192	2 900	682	908	35 2	32 3	62 5	70 1	3 6	3 6	0 1	0 3
Driver-sales workers	5 534	4 543	991	2 932	633	1 390	308	403	29 2	29 2	62 0	65 9	2 9	4 9	0 1	—
Other motor vehicle operators	346	199	147	122	85	72	62	—	25—	46 5	58 8	76 2	5 0	4 1	—	—
Rail and water transportation occupations	6 118	5 289	829	3 484	474	1 438	312	505	39 2	33 1	73 9	69 3	4 2	1 9	0 1	0 6
Material moving equipment operators	78	51	27	45	11	6	16	12	46 9	27 8	78 4	59 3	3 2	5 5	—	—
Supervisors, material moving equipment operators	1 486	1 322	164	943	111	330	46	90	35 3	39 2	71 1	70 1	3 2	5 5	—	—
Crane, hoist and winch operators	190	161	29	154	12	7	17	8	41 3	40 5	96 9	100 0	6 2	—	—	—
Excavating, grading, and dozer machine operators	19	19	—	23	—	22	—	—	46 4	—	42 1	—	—	—	—	—
Other material moving equipment operators	1 226	1 091	135	758	99	290	29	68	34 5	38 4	69 8	63 7	2 9	6 7	11 8	—
Handlers, equipment cleaners, helpers, and laborers	11 549	7 572	3 977	5 050	2 291	2 038	1 372	681	32 1	39 2	63 1	53 9	5 4	1 7	0 2	0 2
Supervisors, handlers, equipment cleaners, and laborers, n e c	251	175	76	137	38	33	38	—	46 2	43 7	90 9	60 5	22 9	14 5	—	—
Helpers, craft and production	2 130	1 400	730	853	595	211	344	98	20 3	41 8	61 6	50 7	5 4	0 6	—	—
Construction laborers	1 803	1 451	352	1 088	237	292	108	102	37 4	37 4	52 2	61 9	3 0	—	—	—
Freight, stock, and material handlers	1 803	1 451	352	1 088	237	292	108	102	37 4	37 4	52 2	61 9	3 0	—	—	—
Garage and service station occupations, and equipment cleaners	692	338	354	213	213	109	84	24	37 8	29 8	69 8	52 3	6 8	1 7	—	—
Hand packers and packagers	686	94	592	57	333	15	174	41	29 5	38 7	43 2	51 1	5 1	2 4	—	—
Laborers, except construction	5 361	3 769	1 592	2 312	866	1 195	612	377	33 7	39 9	62 3	54 5	5 8	1 9	0 4	0 4

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Health services, except hospitals											
	Race						Median age		Percent high school graduates		Percent completed 4 or more years of college	
	White			Black			Male	Female	Male	Female	Male	Female
	Both sexes	Male	Female	Male	Female	Female						
Employed persons 16 years and over	2 825 918	692 054	2 133 864	607 576	1 829 071	47 930	231 773	84 496	41.4	34.9	68.0	13.0
Managerial and professional specialty occupations	936 575	481 984	454 591	443 511	409 211	14 753	28 447	11 795	44.1	38.9	91.2	37.6
Executive, administrative, and managerial occupations	154 002	51 193	102 809	46 441	93 749	3 037	6 104	3 235	39.9	39.8	60.3	24.3
Officials and administrators, public administration	2 813	1 307	1 506	1 202	1 441	56	27	21	37.5	40.0	77.0	21.4
Financial managers	1 044	663	381	651	367	7	14	7	38.1	38.9	66.7	32.8
Managers, marketing, advertising, and public relations	1 217	458	759	376	627	57	94	21	38.5	35.9	79.0	53.2
Administrators, education and related fields	38 959	17 154	21 805	15 967	19 391	781	1 670	591	41.0	42.3	60.0	30.5
Managers, medicine and health	3 798	1 291	2 507	1 190	2 208	56	183	138	39.8	40.2	92.6	54.8
Other specified managers	86 982	20 934	66 048	18 881	61 432	3 372	3 039	834	37.2	39.5	59.5	21.2
Managers and administrators, n.e.c.	82 104	19 611	62 493	17 715	58 298	1 259	2 788	1 891	39.4	39.2	60.5	20.4
Salaries	4 878	1 323	3 555	1 113	3 134	37	97	97	46.4	45.3	44.8	34.1
Self-employed	19 189	9 386	9 803	8 174	8 283	708	1 077	469	38.5	35.5	59.4	30.4
Management related occupations	6 164	2 544	3 620	2 269	3 152	86	212	119	36.2	36.0	66.6	33.3
Accountants and auditors	4 522	1 234	3 288	1 009	2 675	204	520	168	37.1	36.3	52.7	22.3
Business and purchasing agents	1 193	501	692	472	652	18	19	19	44.8	38.2	94.7	12.6
Inspectors and compliance officers	5 038	4 072	966	3 471	742	374	187	136	39.8	32.3	56.2	48.7
Other management related occupations	2 272	1 035	1 237	953	1 062	26	139	87	39.1	35.5	81.5	38.8
Professional specialty occupations	782 573	430 791	351 782	397 070	315 462	11 716	22 343	8 560	44.5	38.7	94.9	41.5
Engineers, architects, and surveyors	2 280	1 898	382	1 730	362	6	6	6	39.2	29.6	98.2	90.3
Architects	125	109	16	103	10	84	6	6	40.5	25	68.3	33.0
Engineers	2 124	1 788	336	1 606	342	84	6	6	39.3	29.5	84.4	56.3
Civil engineers	300	286	14	271	5	7	—	—	34.0	27.2	67.4	30.9
Electrical and electronic engineers	266	258	8	223	8	9	—	—	39.0	48.3	82.2	95.5
Industrial engineers	167	176	80	70	80	7	—	—	36.4	30.8	61.2	97.7
Mechanical engineers	176	176	—	151	176	25	—	—	39.9	—	52.9	50.0
Other engineers	1 215	961	254	891	249	7	—	—	41.2	28.9	36.9	27.6
Surveyors and mapping scientists	31	21	10	21	10	—	—	—	25	32.1	71.5	70.0
Computer systems analysts and scientists	382	314	68	291	41	12	27	3	34.8	30.7	81.5	54.4
Operations and systems researchers and analysts	329	178	151	154	141	11	10	7	36.5	31.8	64.6	51.7
Mathematical scientists	610	218	392	212	340	28	28	6	39.2	34.7	79.4	79.4
Natural scientists	7 476	4 776	2 700	4 304	2 346	121	184	60	38.8	34.3	88.5	96.9
Chemists, except biochemists	1 054	821	233	702	210	17	11	11	36.2	33.4	88.6	77.7
Other natural scientists	6 422	3 955	2 467	3 602	2 136	104	173	60	39.4	34.4	88.4	88.4
Health diagnosing occupations	406 742	374 767	31 975	347 115	25 927	7 849	1 356	1 416	45.9	38.5	77.9	69.2
Health assessment and treating occupations	272 779	18 195	254 584	15 794	231 788	1 560	15 491	5 091	33.9	39.7	77.9	75.0
Registered nurses	215 783	5 092	210 691	4 263	193 085	564	11 544	900	34.8	41.0	60.3	32.4
Other health assessment and treating occupations	36 996	13 103	23 893	11 531	38 723	996	3 947	1 265	33.5	32.6	52.3	52.6
Teachers, except postsecondary	9 080	1 861	7 219	1 501	6 100	259	913	163	31.3	32.6	60.1	47.2
Social scientists and urban planners	26 905	13 574	13 331	12 808	12 132	490	880	354	36.9	37.0	92.1	86.3
Social and recreation workers	42 456	8 920	33 536	7 634	29 721	990	2 905	521	32.5	33.7	76.2	55.2
Lawyers and judges	1 807	1 510	297	1 427	262	31	21	11	38.7	32.8	97.0	78.5
Writers, artists, entertainers, and athletes	4 255	1 617	2 638	1 495	2 298	58	152	63	37.1	34.1	62.8	46.4
Other professional specialty occupations	7 472	2 963	4 509	2 605	4 004	251	370	103	36.0	38.6	68.4	49.7
Technical, sales, and administrative support occupations	746 221	44 440	701 781	36 837	637 771	4 503	42 725	28 006	32.7	34.3	34.3	10.8
Technicians and related support occupations	232 239	25 262	206 977	17 172	200 968	2 165	19 892	1 539	32.9	33.9	37.8	16.1
Health technicians and technicians	241 669	20 955	220 714	17 384	195 433	1 910	19 342	1 346	33.3	33.1	36.2	15.8
Licensed practical nurses	109 969	2 701	107 268	1 717	91 548	13 785	13 785	3 297	35.8	36.1	28.5	2.5
Other health technicians and technicians	131 700	18 701	112 999	15 667	103 885	1 474	5 557	3 96	33.0	33.0	39.2	28.5
Engineering and science technicians	4 857	1 887	2 970	1 610	2 634	162	227	99	32.0	30.4	34.5	22.4
Electrical and electronic technicians	367	247	120	219	74	14	40	36	32.0	29.9	34.5	23.3
Industrial and mechanical engineering technicians	105	26	79	26	79	—	—	—	25	—	—	—
Drafting and surveying technicians	422	215	207	141	186	30	14	6	32.7	32.8	27.4	27.1
Other engineering and science technicians	3 963	1 999	2 564	1 224	2 295	118	173	64	32.7	32.1	39.7	32.1
Technicians, except health, engineering, and science	5 733	2 420	3 313	2 178	2 901	93	323	81	30.5	30.5	54.2	40.0
Airplane pilots and navigators	32	21	11	23	—	—	—	—	30.5	30.5	54.2	40.0
Air traffic controllers and broadcast equipment operators	42	21	21	21	11	—	—	—	30.5	30.5	54.2	40.0
Computer programmers	1 016	550	466	499	415	19	26	13	30.5	30.9	46.5	38.8
Other technicians, except health, engineering, and science	4 662	1 826	2 836	1 635	2 473	74	297	62	30.5	30.4	56.2	31.6

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States												
Health services, except hospitals												
Occupation	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
	White		Black		Male	Female	Male	Female	Male	Female	Male	Female
	Male	Female	Male	Female								
Technical sales, and administrative support occupations—Con.												
Sales occupations	6 087	2 619	3 468	2 423	121	264	35.3	36.1	92.8	85.4	47.9	18.2
Sales representatives, except retail	592	362	230	308	34	—	36.3	37.2	86.2	81.7	21.3	33.5
Sales representatives, commodities, except retail	539	319	220	271	34	—	36.1	36.3	87.5	80.9	21.0	30.5
Self-employed	53	43	10	37	—	—	37.5	40.0	93.9	100.0	23.0	100.0
Sales representatives, finance and business services	299	114	185	179	—	—	37.4	36.0	93.9	97.3	50.3	35.7
Sales representatives, merchandise, except retail	7	—	—	—	—	—	60.0	—	100.0	71.4	—	—
Sales workers, retail and personal services	5 161	2 120	3 041	2 665	87	264	35.1	36.1	93.8	84.9	52.5	16.1
Cashiers	1 544	2 010	1 454	90	112	—	35.0	38.8	89.1	83.5	25.5	3.9
Other sales occupations, retail and personal services	3 597	2 010	1 587	1 888	78	152	35.1	34.3	94.0	86.3	54.0	27.2
Sales related occupations	28	16	12	12	—	—	25—	25.0	100.0	83.3	18.8	—
Administrative support occupations, including clerical	487 875	16 559	471 316	13 242	2 217	22 569	31.8	35.2	81.4	90.3	26.8	8.2
Supervisors, administrative support occupations	15 890	1 740	14 150	1 437	223	1 005	36.8	35.0	86.8	93.1	40.7	12.4
Computer equipment operators	4 341	3 700	641	517	70	280	27.9	29.8	92.4	93.6	24.3	6.1
Secretaries, stenographers, and typists	186 842	1 325	185 517	1 069	197	7 569	31.1	35.4	81.2	93.4	20.8	7.5
Secretaries	168 032	951	167 081	951	134	5 581	31.3	35.8	85.1	93.4	24.0	7.7
Stenographers and typists	18 810	374	18 436	272	63	1 988	30.4	32.5	71.4	88.8	12.8	5.5
Receptionists	128 297	992	127 305	878	83	4 469	29.5	34.3	84.0	88.6	18.6	7.0
Other information clerks	2 662	320	2 342	289	10	253	30.6	35.8	84.1	83.0	34.7	9.9
File clerks	7 963	578	7 385	446	74	740	25—	25—	46.4	61.9	7.1	4.9
Other records processing occupations, except financial	14 968	560	14 408	13 018	115	874	30.8	33.6	79.8	90.4	27.0	6.2
Bookkeepers, accounting, and auditing clerks	52 444	1 954	50 490	1 560	179	1 185	35.8	40.0	89.2	93.5	29.6	12.1
Payroll and timekeeping clerks	1 506	62	1 444	62	29	348	36.7	36.6	86.7	89.1	19.4	5.3
Other financial records processing occupations	5 307	354	5 053	313	29	348	32.0	32.5	79.0	81.1	13.3	3.3
Telephone operators	3 126	224	3 002	1 397	63	406	30.9	38.5	68.3	71.1	16.1	3.6
Mail and message distributing occupations	1 125	1 666	1 441	1 284	160	184	30.6	30.9	65.3	69.2	9.9	3.0
Production coordinators and expeditors	1 058	261	797	209	89	184	33.3	34.6	76.9	88.3	61.7	13.3
Traffic, shipping, and receiving clerks	7 730	361	7 369	280	209	88	33.4	38.1	75.8	76.6	2.5	1.9
Stock and inventory clerks	2 712	1 098	1 614	926	213	1 988	28.6	33.4	70.9	76.6	18.2	8.4
Other material recording, scheduling, and distributing clerks	1 294	233	1 061	157	45	158	36.6	36.5	69.1	73.2	18.0	6.0
Adjusters and investigators	2 950	433	2 517	366	42	147	31.1	32.1	95.4	92.5	49.3	12.9
Dial-center keyers	2 878	159	2 719	366	42	147	31.1	29.0	84.2	82.0	29.6	15.3
Other administrative support occupations	48 512	3 581	44 931	2 751	539	4 089	30.6	34.7	82.1	85.0	34.5	10.9
Service occupations	1 037 410	108 866	928 544	78 956	23 896	154 836	30.2	33.3	56.1	63.9	9.3	3.0
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	3 454	3 062	392	2 366	562	80	50.3	35.5	62.0	65.1	6.7	3.1
Guards	3 278	2 908	370	2 242	541	80	50.8	36.3	60.8	63.0	6.4	3.2
Other protective service occupations	176	154	22	124	21	—	43.1	31.9	83.8	100.0	13.0	—
Service occupations, except protective and household	1 033 956	105 804	928 152	76 590	23 334	154 756	29.8	33.3	55.9	63.9	9.4	3.0
Food preparation and service occupation	106 788	16 977	89 811	12 241	3 554	14 985	25—	40.9	40.0	43.3	3.0	1.3
Health service occupations	783 273	43 713	739 560	30 679	10 643	118 012	29.1	31.8	69.8	68.9	16.6	3.2
Cleaning and building service occupations, except household	104 373	40 257	64 116	30 154	8 083	14 960	34.6	45.1	45.6	38.0	2.9	1.1
Personal service occupations	39 522	4 857	34 665	26 954	1 054	6 799	31.0	41.0	71.5	59.3	19.9	6.4
Farming, forestry, and fishing occupations	2 646	2 248	398	1 794	319	47	36.3	34.5	44.6	58.3	4.0	12.6
Precision production, craft, and repair occupations	61 355	41 275	20 080	36 006	2 374	1 523	36.5	31.3	78.8	81.4	10.8	7.8
Mechanics and repairers	3 944	3 674	270	3 298	305	30	40.4	31.1	66.7	77.0	3.8	23.3
Supervisors, mechanics and repairers	431	397	34	376	9	—	44.4	41.7	78.3	73.5	6.8	—
Automobile mechanics, including body	205	20	18	5	15	—	36.3	30.9	50.0	100.0	2.9	—
Industrial machinery repairers	1 225	1 208	17	1 085	114	—	44.9	32.1	70.9	35.3	2.2	—
Electronic repairers, communications and industrial equipment	114	58	56	51	7	11	36.6	30.7	79.3	91.1	12.1	46.4
Heating, air conditioning, and refrigeration mechanics	247	247	—	247	—	—	37.3	—	72.1	—	—	—
Other mechanics and repairers	1 601	1 458	143	1 252	155	5	37.5	29.2	62.3	74.1	4.9	25.9
Construction trades	4 796	4 464	332	3 896	408	45	42.5	33.9	61.2	60.2	4.7	2.1
Supervisors, construction occupations	1 253	665	63	833	27	—	43.5	39.7	67.4	68.3	6.8	—
Carpenters	1 353	1 190	63	1 056	108	7	42.2	33.1	64.5	65.1	6.1	—
Electricians	467	451	16	382	35	8	42.4	30.0	83.4	25.0	6.2	—
Painters, construction and maintenance	1 353	1 220	133	1 029	150	30	41.5	26.8	49.4	54.9	4.8	—
Plumbers, pipefitters, and steamfitters	720	720	—	600	74	—	43.6	26.8	56.3	—	0.3	—
Other construction trades	275	218	57	196	14	—	33.2	38.1	61.0	68.4	3.2	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States												
Employed persons 16 years and over—Con.												
Health services, except hospitals												
Race												
Total												
Both sexes												
Spanish origin¹												
Median age												
Percent high school graduates												
Percent completed 4 or more years of college												
Percent self-employed												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												
Male												
Female												

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Educational services, government													
United States													
	Total				Race				Spanish origin ¹		Median age		Percent completed 4 or more years of college
	Both sexes		Male		White		Black		Male	Female	Male	Female	
Employed persons 16 years and over	6 428 418	2 235 293	4 193 125	1 931 387	3 523 101	215 654	528 783	91 973	172 457	38.5	38.1	90.5	52.8
Managerial and professional specialty occupations	3 985 415	1 498 002	2 487 413	1 350 287	2 136 555	102 589	286 573	41 994	70 626	39.1	37.0	97.7	83.2
Executive, administrative, and managerial occupations	400 454	247 876	152 578	220 857	127 104	20 884	20 203	6 883	5 241	44.6	43.5	91.8	50.5
Officials and administrators, public administration	207	207	—	180	—	27	—	12	—	46.6	46.6	100.0	—
Financial managers	2 602	1 722	880	1 580	798	91	62	43	11	42.1	40.9	98.8	31.3
Managers, marketing, advertising, and public relations	858	392	466	356	419	21	31	18	13	40.3	36.6	100.0	58.8
Administrators, education and related fields	252 591	178 267	74 324	159 332	60 665	15 491	11 234	4 732	2 739	45.3	43.2	96.3	72.4
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	7 280	4 750	2 530	4 238	2 046	426	367	111	92	44.0	40.9	94.5	47.4
Managers and administrators, n.e.c.	94 361	43 725	50 636	39 305	43 539	2 892	5 639	1 124	1 366	82.6	73.2	82.6	25.5
Self-employed	—	—	—	—	—	2 892	5 639	1 124	1 366	43.3	46.6	—	—
Management related occupations	42 555	18 813	23 742	15 866	19 637	1 936	2 870	843	1 020	39.8	37.8	96.6	66.3
Accountants and auditors	16 239	6 719	9 520	5 543	8 089	605	872	306	287	37.3	37.3	97.1	72.6
Personnel, training, and labor relations specialists	12 124	5 195	6 929	4 322	5 594	655	1 196	274	379	40.3	38.0	95.8	49.9
Buyers and purchasing agents	4 787	2 385	2 402	2 180	2 173	180	218	43	108	46.0	43.3	96.5	17.7
Inspectors and compliance officers	2 621	1 681	1 040	1 475	720	151	143	91	42	48.5	41.5	90.1	31.7
Other management related occupations	6 784	2 853	3 931	2 346	3 261	365	441	129	204	36.1	34.5	97.5	49.9
Professional specialty occupations	3 584 961	1 250 126	2 334 835	1 129 430	2 009 451	81 705	266 370	35 111	65 385	37.9	36.6	98.7	89.9
Engineers, architects, and surveyors	8 434	7 577	857	6 724	732	376	61	122	33	37.9	31.1	96.9	65.6
Architects	1 146	776	370	604	130	73	—	19	6	37.5	33.8	97.2	79.8
Engineers	7 089	6 801	588	5 805	588	297	28	103	8	38.4	30.1	96.8	73.1
Civil engineers	1 840	1 784	56	1 432	36	40	—	16	—	44.0	31.4	97.9	61.1
Electrical and electronic engineers	1 459	385	44	1 331	53	52	7	14	—	36.7	29.7	97.4	89.6
Mechanical engineers	892	876	16	809	67	67	—	10	—	47.9	33.2	93.7	45.3
Other engineers	3 197	2 801	396	2 414	370	88	9	63	8	35.2	30.5	98.1	62.5
Surveyors and mapping specialists	201	80	121	72	114	6	7	19	—	42.1	32.4	100.0	64.5
Computer systems analysts and scientists	4 809	3 484	1 325	3 255	1 188	69	45	121	14	33.1	32.9	99.5	67.7
Operations and systems researchers and analysts	1 459	771	688	665	449	53	166	58	90	34.6	34.6	91.6	61.5
Mathematical scientists	1 693	954	739	822	663	46	20	27	25	32.8	34.6	98.3	84.8
Natural scientists	16 471	12 054	4 417	11 076	3 996	141	146	184	104	32.8	31.0	98.9	82.8
Chemists, except biochemists	2 453	1 778	675	1 541	561	54	27	47	23	31.7	31.3	99.3	89.3
Other natural scientists	14 018	10 276	3 742	9 535	3 435	87	119	137	81	33.1	31.0	98.9	84.4
Health diagnosing occupations	7 311	5 685	1 626	5 260	1 417	139	81	120	49	39.3	35.0	99.9	88.2
Health assessment and treating occupations	65 690	3 621	62 069	3 223	56 846	263	4 120	107	1 174	32.6	38.2	97.9	92.6
Registered nurses	32 869	467	32 402	415	29 966	34	1 796	17	499	36.5	45.6	94.0	81.2
Other health assessment and treating occupations	32 821	3 154	29 667	2 808	26 664	229	2 324	90	675	32.2	31.5	98.5	57.3
Teachers, except postsecondary	2 747 222	839 480	1 907 742	759 261	1 634 294	61 266	229 742	23 614	53 088	37.3	36.4	98.2	87.4
Social scientists and urban planners	21 745	10 499	11 246	10 048	10 378	262	402	213	224	36.3	36.7	99.3	94.8
Social and recreation workers	18 398	5 073	13 325	3 988	9 482	853	3 268	368	820	35.9	38.8	95.6	66.5
Lawyers and judges	1 311	873	438	800	371	66	43	31	26	33.5	30.6	99.5	90.0
Writers, artists, entertainers, and athletes	34 009	17 999	16 010	16 138	14 455	1 212	932	478	563	30.2	30.5	97.7	52.7
Other professional specialty occupations	656 409	342 056	314 353	308 140	275 376	16 959	27 763	9 668	9 175	40.3	38.0	98.8	77.9
Technical, sales, and administrative support occupations	1 122 249	171 957	950 292	141 494	800 676	16 474	106 451	9 556	53 419	27.4	36.7	92.2	12.3
Technicians and related support occupations	116 623	67 958	48 665	59 197	41 773	2 682	3 515	2 376	1 438	28.7	29.0	97.4	60.8
Health technicians and technicians	12 106	4 109	7 997	3 557	6 772	233	710	170	218	29.7	33.0	96.5	45.2
Licensed practical nurses	2 106	4 55	2 051	43	1 596	78	377	18	78	36.8	40.5	96.4	91.1
Other health technicians and technicians	10 000	4 054	5 946	3 514	5 176	226	461	152	140	29.6	31.2	96.9	57.4
Engineering and science technicians	38 528	22 894	15 632	20 155	13 517	1 199	1 078	888	539	27.2	25	95.9	38.0
Electrical and electronic technicians	4 803	4 235	568	3 928	439	153	100	142	16	32.8	27.1	96.6	36.4
Industrial and mechanical engineering technicians	2 111	1 145	66	1 39	66	139	—	—	—	32.4	39.7	92.8	12.1
Drafting and surveying technicians	2 429	1 661	768	1 402	704	129	25	104	18	28.3	27.5	93.4	39.4
Other engineering and science technicians	31 085	16 855	14 230	14 686	12 308	911	953	642	505	25.7	25	96.4	40.4
Technicians, except health, engineering, and science	65 989	40 953	25 036	35 485	21 484	1 250	1 599	1 318	681	29.2	29.8	98.1	74.4
Airplane pilots and navigators	79	67	12	67	12	—	—	7	—	25.0	25.0	100.0	62.8
Air traffic controllers and broadcast equipment operators	1 160	822	338	708	309	105	18	33	3	25	25	93.4	100.0
Computer programmers	12 929	8 698	4 231	8 030	3 708	135	224	257	159	27.6	28.5	97.1	14.5
Other technicians, except health, engineering, and science	51 821	31 366	20 455	26 680	17 455	1 010	1 357	1 021	519	29.7	30.1	98.9	66.9

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

	Educational services, government																	
	Race				Spanish origin ¹				Median age				Percent high school graduates					
	Total		White		Black		Male		Female		Male		Female		Male		Female	
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over—Con																		
Technical, sales, and administrative support occupations—Con																		
Sales occupations	33 577	4 669	28 908	4 063	25 505	403	2 686	269	1 077	25—	42.7	92.2	79.0	28.9	4.6	—	—	
Supervisors and proprietors, sales occupations	1 449	729	720	615	624	78	76	38	27	37.1	45.3	91.5	91.4	42.0	20.3	—	—	
Salaries	1 449	729	720	615	624	78	76	38	27	37.1	45.3	91.5	91.4	42.0	20.3	—	—	
Self-employed	472	304	168	268	151	8	17	—	2	35.6	—	100.0	100.0	67.1	29.2	—	—	
Sales representatives, finance and business services	30 927	3 282	27 645	2 857	24 345	297	2 597	107	1 023	60.0	30.0	100.0	78.5	21.2	4.0	—	—	
Sales representatives, commodities, except retail	26 698	1 921	24 777	1 646	21 899	189	2 394	170	943	73—	42.7	90.6	90.6	14.9	3.0	—	—	
Cashiers	4 229	1 361	2 868	1 211	2 446	108	293	63	80	23—	29.6	97.7	87.8	30.1	12.5	—	—	
Other sales occupations, retail and personal services	718	348	370	317	360	20	6	61	25	42.1	46.9	97.7	81.4	41.1	7.6	—	—	
Sales related occupations	972 049	99 330	872 719	78 234	733 398	13 389	100 250	6 911	50 904	25.8	37.1	88.9	92.3	27.7	10.4	—	—	
Administrative support occupations, including clerical	18 893	6 190	12 703	5 100	10 709	748	1 764	318	305	38.7	43.3	91.6	95.2	40.7	16.9	—	—	
Supervisors, administrative support occupations	13 956	4 446	9 510	3 378	6 387	583	1 574	305	307	26.4	30.7	96.4	95.2	25.4	12.4	—	—	
Computer equipment operators	398 456	4 756	393 700	3 780	346 411	676	34 416	319	15 611	25.4	38.5	90.2	95.2	21.4	7.2	—	—	
Secretaries, stenographers, and typists	335 034	3 011	332 023	2 473	297 855	353	25 094	159	11 480	26.0	39.6	90.2	95.8	24.9	7.4	—	—	
Secretaries	63 422	1 745	61 677	1 307	48 556	323	9 322	160	4 131	25—	31.1	88.7	91.5	15.2	6.3	—	—	
Stenographers and typists	19 386	3 002	16 384	2 400	13 220	340	2 333	121	4 131	25—	25—	95.7	93.4	13.3	7.7	—	—	
Receptionists	6 240	2 107	4 133	1 721	3 356	241	643	77	195	25—	25—	95.4	90.4	42.9	20.3	—	—	
Other information clerks	11 938	2 345	9 593	1 696	6 781	528	2 240	208	729	25—	25—	88.3	83.7	13.2	6.7	—	—	
File clerks	1 938	640	1 298	1 696	6 781	528	2 240	208	729	25—	25—	88.3	83.7	13.2	6.7	—	—	
Other records processing occupations, except financial	108 532	17 558	90 974	13 813	78 048	2 094	8 950	1 087	3 763	25—	34.4	78.9	86.6	21.9	17.6	—	—	
Bookkeepers, accounting, and auditing clerks	39 728	2 763	36 965	2 204	33 453	295	2 177	134	1 162	32.3	41.8	96.6	94.9	33.8	6.3	—	—	
Payroll and timekeeping clerks	6 747	268	6 479	187	5 596	69	639	46	309	35.8	39.5	92.9	95.0	25.0	6.5	—	—	
Other financial records processing occupations	3 191	911	2 280	734	1 965	99	252	130	60	33.9	33.7	85.9	95.9	71.0	44.1	—	—	
Telephone operators	6 721	715	6 006	583	4 932	97	768	42	357	25—	25—	85.9	86.0	16.1	3.6	—	—	
Mail and message distributing occupations	9 867	5 647	4 220	4 489	3 286	869	771	296	185	25—	25—	85.0	89.3	8.3	4.9	—	—	
Production coordinators and expeditors	3 467	1 182	2 285	1 044	914	95	291	90	77	33.9	34.4	93.4	93.6	36.0	25.1	—	—	
Traffic, shipping, and receiving clerks	2 288	1 645	643	1 306	576	224	56	200	20	31.3	33.5	83.1	87.6	12.6	8.1	—	—	
Stock and inventory clerks	10 235	6 557	3 678	5 325	3 015	862	509	373	187	34.4	32.4	82.1	91.6	9.3	10.3	—	—	
Other material recording, scheduling, and distributing clerks	2 290	701	1 589	582	1 358	81	188	50	101	25—	34.9	90.4	87.0	14.8	9.6	—	—	
Adjusters and investigators	2 582	608	1 974	528	1 453	64	375	21	202	35.3	38.1	89.0	95.2	35.9	19.7	—	—	
Data-entry keyers	9 087	736	8 351	645	6 747	537	1 104	58	456	25—	30.6	92.3	93.9	21.7	8.1	—	—	
Other administrative support occupations	298 425	35 193	263 232	26 719	204 191	5 367	42 180	3 036	25 675	26.7	37.1	92.1	89.8	36.9	12.8	—	—	
Service occupations	996 332	361 275	635 057	270 868	481 631	69 636	122 308	28 084	45 066	41.4	43.9	55.2	63.4	4.2	4.0	—	—	
Private household occupations	33 178	23 861	9 317	17 678	6 966	4 948	2 002	1 389	415	32.2	27.4	79.4	74.1	9.9	5.6	—	—	
Protective service occupations	31 865	22 705	9 160	16 785	6 845	4 726	1 966	1 357	410	31.7	27.1	78.9	74.5	9.5	5.4	—	—	
Guards	1 313	1 156	157	893	121	222	36	32	5	41.9	37.2	88.8	73.2	17.8	19.1	—	—	
Other protective service occupations	963 154	337 414	625 740	253 190	474 665	64 688	120 306	26 695	44 651	42.2	44.1	53.5	63.2	3.8	4.0	—	—	
Service occupations, except protective and household	331 276	22 642	308 634	16 376	251 072	4 535	47 374	1 386	14 944	25.2	47.7	71.3	84.4	3.7	1.4	—	—	
Food preparation and service occupation	15 775	1 780	13 995	1 322	9 930	371	3 387	39	1 102	29.4	37.7	75.3	80.3	19.9	7.9	—	—	
Health service occupations	397 986	294 491	103 495	222 638	62 129	56 084	36 379	23 303	6 979	45.6	46.0	50.1	39.3	2.4	1.1	—	—	
Cleaning and building service occupations, except household	218 117	18 501	199 616	12 854	151 534	3 698	33 166	1 967	21 626	38.6	38.6	83.8	84.7	21.0	9.4	—	—	
Personal service occupations	21 888	18 331	3 557	14 555	3 002	2 157	383	2 477	210	35.3	30.1	60.4	85.2	6.1	10.4	—	—	
Farming, forestry, and fishing occupations	99 726	88 399	11 327	76 896	9 602	8 221	1 313	4 667	535	44.0	43.0	67.9	74.9	5.6	13.0	—	—	
Precision production, craft, and repair occupations	37 022	34 704	2 318	30 672	2 020	2 854	205	1 630	123	40.9	43.0	68.9	90.6	5.4	16.0	—	—	
Mechanics and repairers	2 309	2 091	218	1 937	209	111	9	26	8	48.6	25—	78.4	96.3	17.5	6.4	—	—	
Supervisors, mechanics and repairers	6 058	5 877	181	5 001	146	555	21	448	30	37.7	28.9	60.8	85.6	3.1	18.2	—	—	
Automobile mechanics, including body	3 974	3 893	81	3 514	70	276	—	113	11	45.2	25—	65.3	77.8	4.1	—	—	—	
Industrial machinery repairers	3 578	3 436	942	3 271	806	237	113	186	24	33.0	37.0	89.2	95.6	14.2	25.1	—	—	
Electronic repairers, communications and industrial equipment	3 975	3 950	25	3 434	25	351	—	211	50	40.4	39.6	75.3	80.0	2.7	—	—	—	
Heating, air conditioning, and refrigeration mechanics	16 128	15 257	871	13 515	764	1 324	62	646	764	41.8	35.1	65.2	86.1	3.6	10.1	—	—	
Other mechanics and repairers	39 927	38 903	1 024	33 782	786	3 560	178	2 378	38	45.7	26.5	64.3	74.7	3.5	14.3	—	—	
Construction trades	3 032	2 927	105	2 702	61	166	33	73	5	50.2	32.0	75.5	94.3	9.5	15.2	—	—	
Supervisors, construction occupations	11 481	11 133	348	9 912	270	788	75	615	8	46.3	28.1	64.4	73.3	3.8	9.9	—	—	
Carpenters	8 146	8 055	91	7 246	88	553	—	372	3	43.2	25.4	76.0	86.8	3.2	9.9	—	—	
Electricians	8 217	7 880	337	6 412	265	1 018	47	728	11	43.4	53.7	53.7	63.2	3.4	6.5	—	—	
Painters, construction and maintenance	6 367	6 303	64	5 403	53	638	6	442	5	46.3	92.2	60.1	92.2	1.1	23.4	—	—	
Plumbers, pipefitters, and steamfitters	2 684	2 605	79	2 107	49	397	17	148	6	46.6	27.0	56.9	75.9	2.1	22.8	—	—	
Other construction trades	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Educational services, government																
United States																
	Race				Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White													
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con.																
Precision production, craft, and repair occupations—Con																
Extraction occupations	73	57	16	51	9	7	—	—	29.6	42.5	54.4	100.0	29.8	100.0	—	—
Precision production occupations	22 714	14 735	7 979	12 391	6 787	923	659	374	45.7	46.5	75.1	70.3	11.4	11.8	—	—
Supervisors, production occupations	6 212	4 319	1 893	3 733	1 570	268	187	61	45.9	42.2	78.2	88.2	23.1	37.2	—	—
Precision metalworking occupations	2 951	2 810	141	2 557	124	17	103	—	46.0	41.4	77.2	82.3	5.8	9.9	—	—
Tool and die makers	62	62	—	52	—	—	—	—	34.5	—	64.5	—	—	—	—	—
Machinists	1 836	1 738	98	1 623	81	17	55	—	46.5	41.2	78.5	80.6	7.2	7.1	—	—
Sheet metal workers	517	517	—	447	—	—	41	—	47.7	—	78.5	—	1.4	—	—	—
Other precision metal workers	536	493	43	435	43	—	7	—	41.4	45.7	72.4	86.0	6.3	16.3	—	—
Precision textile, apparel, and furnishings machine workers	717	187	530	141	448	22	35	58	49.2	26.5	51.9	83.4	—	—	—	—
Precision food production occupations	5 218	532	4 686	432	4 080	78	73	218	30.2	49.4	67.7	61.0	10.7	14.7	—	—
Precision inspectors, testers, and related workers	133	84	49	67	45	17	4	—	35.0	48.0	78.6	100.0	15.5	79.6	—	—
Plant and system operators	5 854	5 731	123	4 580	91	32	161	15	46.7	38.1	73.2	39.0	5.8	8.1	—	—
Other precision production occupations	1 629	1 072	557	881	429	101	93	18	37.5	31.9	74.5	77.2	11.4	11.3	—	—
Operators, fabricators, and laborers																
Machine operators, assemblers, and inspectors	202 798	97 329	105 469	77 287	91 435	16 577	5 195	2 601	40.0	39.0	60.2	69.6	5.5	2.4	—	—
Machine operators and tenders, except precision	27 859	18 247	9 612	14 797	7 911	2 452	1 095	382	32.5	30.3	74.3	79.8	8.3	10.5	—	—
Metalworking and plastic working machine operators	23 134	14 736	8 398	11 941	7 004	2 007	1 687	323	33.2	30.0	75.6	80.7	8.2	9.1	—	—
Far-ranging machine operators, n.e.c.	227	165	62	134	31	31	16	—	32.2	31.2	80.0	67.7	2.4	25.8	—	—
Fabricating machine operators	25	25	—	25	—	—	—	—	50.0	—	56.0	—	—	—	—	—
Metal and plastic processing and woodworking machine operators	477	243	234	198	196	28	7	28	30.1	29.1	85.6	76.9	11.9	5.6	—	—
Printing machine operators	6 659	3 732	2 927	2 963	2 572	571	272	100	30.0	30.8	83.0	86.2	9.2	7.3	—	—
Textile machine operators	62	71	41	21	37	—	—	—	30.0	30.0	100.0	75.6	33.3	36.6	—	—
Textile sewing machine operators	273	19	254	19	169	—	—	1.4	50.8	34.5	68.4	63.0	—	—	—	—
Laundry and dry cleaning machine operators	2 022	787	1 235	590	971	113	85	72	28.1	46.4	66.8	50.9	5.8	1.8	—	—
Packaging and filling machine operators	117	44	73	17	70	3	—	—	55.4	25	100.0	82.2	—	23.3	—	—
Furnace, kiln, and oven operators, except food	4 258	4 098	160	3 350	137	689	23	95	45.2	42.3	65.2	63.8	2.1	7.5	—	—
Other specified machine operators	4 694	2 844	1 850	2 390	1 585	316	94	37	25	25.5	83.3	91.1	12.0	11.5	—	—
Miscellaneous and not specified machine operators	4 320	2 758	1 562	2 234	1 236	432	118	72	34.0	30.1	74.5	87.3	12.9	14.4	—	—
Fabricators, assemblers, and hand working occupations																
Welders and cutters	3 209	2 642	567	2 123	373	352	342	16	30.9	25	61.6	57.1	4.4	11.5	—	—
Solders and brazers	2 025	1 906	119	1 548	81	206	314	—	32.6	26.5	62.2	63.9	2.4	10.1	—	—
Assemblers	979	551	378	436	233	115	6	6	32.5	37.5	76.9	—	15.4	—	—	—
Hand working occupations	220	159	61	124	56	20	—	10	25	25	53.9	52.1	8.0	8.5	—	—
Production inspectors, testers, samplers, and weighers	1 516	869	647	733	534	93	22	—	29.2	25	83.6	83.6	14.5	34.4	—	—
Graders and sorters, except agricultural	1 008	533	475	424	388	66	66	43	25	25	89.6	88.1	22.0	27.2	—	—
Other production inspectors, testers, samplers, and weighers	508	336	172	309	146	27	31	15	25	25	88.2	93.3	20.1	29.1	—	—
Transportation and material moving occupations																
Transportation occupations	157 755	66 018	91 737	52 755	80 571	11 468	3 005	1 961	45.4	39.7	55.2	68.6	4.5	1.4	—	—
Motor vehicle operators	156 077	64 537	91 540	51 537	80 436	11 286	2 899	1 961	45.6	39.7	55.0	68.6	4.5	1.4	—	—
Truck drivers	10 270	6 838	1 632	6 476	1 266	1 882	612	57	37.9	39.9	63.2	70.5	4.7	3.9	—	—
Driver-sales workers	534	404	130	321	130	71	13	—	35.8	39.9	70.5	78.5	6.7	—	—	—
Other motor vehicle operators	145 122	55 415	89 707	44 660	78 969	9 333	2 274	1 904	46.6	39.7	53.6	68.6	4.5	1.3	—	—
Rail and water transportation occupations	151	80	71	80	71	—	—	—	33.5	35.6	63.8	100.0	8.8	8.5	—	—
Material moving equipment operators	1 678	1 481	197	1 280	135	182	106	—	38.5	35.9	62.9	73.1	4.1	14.7	—	—
Supervisors, material moving equipment operators	135	110	25	101	25	9	—	—	54.2	45.7	82.7	76.0	24.5	48.0	—	—
Crane, hoist, and winch operators	40	40	—	40	—	—	—	—	42.9	—	47.5	—	—	—	—	—
Excavating, grading, and dozer machine operators	148	139	9	134	9	—	—	—	26.5	38.6	77.8	—	6.5	—	—	—
Other material moving equipment operators	1 355	1 192	163	943	101	173	106	—	37.9	32.0	59.6	72.4	2.0	10.4	—	—
Handlers, equipment cleaners, helpers, and laborers																
Supervisors: handlers, equipment cleaners, and laborers	17 184	13 064	4 120	9 735	3 153	2 457	1 095	258	26.2	25.9	65.5	66.1	6.4	6.4	—	—
Helpers, craft and production	195	120	75	90	44	30	—	8	49.4	44.0	70.8	81.3	35.0	8.0	—	—
Construction laborers	2 869	2 164	705	1 544	572	403	300	36	27.5	34.4	58.8	66.2	5.5	10.2	—	—
Freight, stock, and material handlers	837	769	68	596	49	127	19	62	7	29.9	58.0	64.7	6.1	25.0	—	—
Garage and service station occupations, and equipment cleaners	2 638	2 041	597	1 604	479	344	163	46	25	25	73.9	79.4	7.4	7.7	—	—
Hand packers and packagers	954	732	222	530	180	137	24	—	25	27.4	55.7	55.9	3.6	3.6	—	—
Hand laborers, except construction	595	203	392	160	297	32	5	24	25	38.1	65.5	44.1	2.8	5.5	—	—
Laborers	9 096	7 035	2 061	5 211	1 532	1 384	541	137	27.3	25	66.9	67.1	6.4	5.5	—	—

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																	
Educational services, private																	
Race				Spanish origin ¹				Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed			
Total		White		Black		Male		Female		Male		Female		Male		Female	
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
1 948 795	696 727	1 252 068	609 143	1 106 364	57 561	110 069	26 679	40 747	33.7	34.5	88.4	91.1	53.4	44.2	2.9	4.5	
Employed persons 16 years and over																	
1 102 343	417 882	684 461	382 274	626 542	21 192	42 340	10 944	16 342	36.0	34.9	97.4	96.9	78.5	71.6	4.1	7.8	
161 348	80 258	81 090	72 742	72 131	5 247	6 951	2 156	2 203	39.8	39.1	96.6	94.9	72.3	52.5	2.0	1.6	
36	35	35	35	35	85	93	22	20	40.5	41.5	100.0	98.2	70.0	42.1	1.2	—	
2 348	1 472	876	1 367	762	85	93	22	20	40.5	41.5	92.9	95.2	51.6	39.1	2.0	1.4	
1 149	707	442	680	442	243	15	18	9	40.4	33.5	92.9	95.2	51.6	39.1	2.0	1.4	
89 852	47 257	42 595	43 281	38 271	3 132	3 511	970	1 002	41.2	40.1	96.7	97.1	86.4	66.3	1.3	1.5	
Managers, medicine and health																	
3 648	1 973	1 675	1 793	1 454	137	203	28	31	40.8	34.8	96.8	95.9	56.7	49.2	0.7	2.1	
44 924	20 890	24 034	18 867	21 569	1 055	1 377	771	632	36.8	35.8	95.8	89.9	59.9	34.4	3.6	2.1	
43 451	20 034	23 417	18 086	21 022	1 005	1 817	719	602	36.5	39.7	96.8	89.8	40.6	34.1	3.6	2.1	
1 473	856	617	781	547	50	35	52	30	45.7	42.1	88.4	91.1	43.9	45.7	87.7	80.1	
Self-employed																	
19 392	7 924	11 468	6 719	9 433	838	1 292	340	509	35.8	34.2	97.7	97.2	61.4	40.9	2.3	1.2	
7 375	3 147	4 228	2 593	3 505	384	406	149	208	34.2	33.6	99.6	98.1	67.7	35.4	0.7	0.8	
5 207	1 909	3 298	1 598	2 676	243	494	72	209	35.4	33.1	97.4	96.3	53.7	50.2	2.8	1.8	
1 257	779	978	684	913	49	61	46	—	40.9	41.0	97.4	96.3	53.7	50.2	2.8	1.8	
1 520	361	159	331	154	15	5	26	10	42.4	43.3	87.5	83.6	29.1	16.4	10.0	—	
4 533	1 728	2 805	1 513	2 385	147	326	87	82	35.6	37.7	98.3	98.5	76.4	46.1	4.1	0.9	
Other management related occupations																	
940 995	337 624	603 371	309 532	554 411	15 945	35 389	8 788	14 139	35.1	34.5	97.6	97.1	79.9	74.1	4.6	7.8	
5 426	4 785	641	4 302	533	146	64	92	53	37.4	32.6	98.7	96.4	66.9	63.0	1.5	7.8	
406	310	96	288	82	22	9	8	—	32.6	39.5	93.9	100.0	76.5	57.3	1.6	—	
4 955	4 442	513	3 981	419	124	55	84	5	38.0	32.6	99.0	95.5	66.2	57.3	1.6	9.7	
255	198	57	156	33	15	24	—	—	36.0	34.8	98.0	95.5	55.1	14.0	—	—	
1 633	1 551	82	1 474	82	25	—	19	—	37.8	25	100.0	100.0	56.9	45.1	1.6	—	
208	161	47	152	42	8	5	—	—	45.5	27.7	100.0	89.4	61.5	57.4	—	—	
509	487	22	1 780	254	66	18	39	—	37.3	40.0	97.1	100.0	57.3	36.4	1.4	—	
2 350	2 045	305	1 33	32	—	—	26	—	37.7	34.6	99.4	100.0	76.9	70.2	1.8	16.4	
65	33	32	—	—	—	—	—	—	27.8	25.6	100.0	100.0	69.7	53.1	—	—	
Survivors and mapping scientists																	
1 909	1 291	618	1 176	542	53	28	30	35	31.1	30.6	99.3	98.9	68.3	65.0	3.0	—	
494	275	219	262	146	8	73	—	9	39.7	30.6	97.8	100.0	73.1	39.7	—	0.9	
785	465	320	447	256	8	30	17	9	31.5	28.4	98.7	100.0	76.1	68.4	3.4	—	
7 782	5 514	2 268	4 746	1 913	123	54	104	111	32.6	30.5	99.1	98.5	80.4	80.2	0.8	1.8	
1 464	1 069	395	852	313	39	7	11	27	32.4	30.0	99.3	100.0	86.2	84.3	—	—	
6 318	4 445	1 873	3 894	1 600	84	47	93	121	32.7	30.6	99.0	98.2	90.2	79.4	1.0	2.2	
5 951	4 742	1 209	4 277	1 049	241	69	105	54	39.3	36.9	99.9	99.4	97.7	92.4	8.0	9.6	
17 337	1 018	16 319	946	15 120	64	64	25	222	31.3	36.2	97.3	97.4	67.7	61.7	6.6	27.7	
10 398	195	10 203	174	9 531	16	16	5	143	32.3	41.0	100.0	98.2	44.1	49.4	5.1	1.5	
6 939	823	6 116	772	5 589	48	48	20	79	31.1	31.1	96.7	95.2	73.3	82.1	6.9	4.6	
Other health assessment and treating occupations																	
597 095	155 226	441 869	143 638	409 105	7 587	24 355	4 569	10 203	33.5	34.6	96.2	96.9	76.9	75.4	8.3	11.3	
5 477	2 863	2 614	2 726	2 386	54	135	73	151	34.5	34.2	99.6	99.2	92.7	90.5	3.9	8.4	
4 723	1 694	3 029	1 338	2 382	264	510	102	155	30.3	33.7	97.4	95.1	97.1	87.8	3.7	2.6	
24 521	13 287	11 234	12 045	10 554	739	436	374	201	34.4	33.7	99.4	97.8	94.7	89.3	36.1	10.3	
268 322	145 563	122 759	132 787	110 186	6 599	8 698	3 297	3 018	36.8	34.9	97.7	97.6	85.0	72.6	6.6	0.6	
Teachers, except postsecondary																	
597 095	155 226	441 869	143 638	409 105	7 587	24 355	4 569	10 203	33.5	34.6	96.2	96.9	76.9	75.4	8.3	11.3	
5 477	2 863	2 614	2 726	2 386	54	135	73	151	34.5	34.2	99.6	99.2	92.7	90.5	3.9	8.4	
4 723	1 694	3 029	1 338	2 382	264	510	102	155	30.3	33.7	97.4	95.1	97.1	87.8	3.7	2.6	
24 521	13 287	11 234	12 045	10 554	739	436	374	201	34.4	33.7	99.4	97.8	94.7	89.3	36.1	10.3	
268 322	145 563	122 759	132 787	110 186	6 599	8 698	3 297	3 018	36.8	34.9	97.7	97.6	85.0	72.6	6.6	0.6	
Other professional specialty occupations																	
444 444	89 824	354 620	75 503	306 544	7 910	35 097	3 794	14 304	25	30.6	94.7	94.0	35.4	15.4	1.0	0.3	
58 687	33 436	25 251	28 687	21 609	1 562	1 933	1 081	900	27.0	27.7	97.9	97.2	53.7	51.2	0.8	0.8	
8 365	3 192	5 173	2 605	4 541	278	522	140	203	29.5	31.7	96.3	95.6	63.8	49.2	0.8	1.2	
1 080	23	1 057	23	850	—	—	—	—	32.2	36.9	100.0	88.1	8.7	7.6	—	2.7	
7 485	3 169	4 316	2 362	3 691	278	339	140	181	29.5	30.8	96.2	97.5	64.2	59.4	0.8	0.8	
Other health technologists and technicians																	
19 293	11 229	8 064	9 917	6 977	589	595	399	325	25	25	96.5	96.3	27.7	30.0	0.5	0.1	
2 230	1 883	347	1 662	284	119	45	101	33	32.0	23.9	92.2	90.8	17.7	25.6	0.8	—	
81	67	14	67	14	—	—	—	—	25	25	82.1	42.9	16.4	—	—	—	
990	722	268	621	241	63	10	15	7	28.1	30.3	97.9	93.7	25.1	53.0	4.4	—	
15 992	8 557	7 435	7 567	6 438	407	540	283	285	25	25	97.5	96.7	30.2	46.5	0.1	0.1	
Other engineering and science technicians																	
30 829	19 015	11 814	16 165	10 091	695	816	542	372	28.2	29.0	98.9	98.5	67.4	66.5	1.1	1.2	
218	207	11	207	11	33	9	4	—	32.2	32.5	100.0	100.0	36.7	32.0	20.3	—	
645	512	133	474	124	11	—	17	—	25	25	93.8	100.0	11.5	12.0	2.1	—	
7 170	4 981	2 189	4 512	1 877	182	126	136	293	25	25	98.5	98.5	43.8	50.1	0.1	2.0	
22 796	13 315	9 481	10 972	8 079	480	681	385	293	29.5	27.4	99.2	98.4	78.8	71.0	1.1	1.1	
Other technicians, except health, engineering, and science																	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction For meaning of symbols, see Introduction For definitions of terms, see appendix A]

	United States										Educational services private									
	Total					Race					Spanish origin ¹					Percent high school graduates				
	Both sexes		Male		Female	White		Black			Male		Female			Male		Female		
	Male	Female	Male	Female		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Technical, sales, and administrative support occupations—Con																				
Supervisors and proprietors, sales occupations	19 545	13 637	5 289	12 015	410	1 287	1 287	410	1 287	143	403	333	333	333	333	333	333	333	333	333
Salaries	1 263	571	511	618	46	54	54	46	54	14	11	39	39	39	39	39	39	39	39	39
Self-employed	1 183	535	36	44	46	54	54	46	54	14	11	39	39	39	39	39	39	39	39	39
Sales representatives, finance and business services	180	36	36	44	46	54	54	46	54	14	11	39	39	39	39	39	39	39	39	39
Sales representatives, commodities, except retail	317	211	106	106	106	106	106	106	106	6	6	60	60	60	60	60	60	60	60	60
Sales workers, retail and personal services	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Cashiers	10 432	9 070	1 167	7 773	127	1 078	1 078	127	1 078	129	386	32	32	32	32	32	32	32	32	32
Other sales occupations, retail and personal services	7 437	3 718	3 385	3 488	227	147	147	227	147	104	78	33	33	33	33	33	33	33	33	33
Sales related occupations	90	51	39	30	8	8	8	8	8	34	2	49	49	49	49	49	49	49	49	49
Administrative support occupations, including clerical	366 212	315 732	41 527	272 920	5 938	31 877	31 877	5 938	31 877	2 570	13 001	25	25	25	25	25	25	25	25	25
Supervisors, administrative support occupations	8 080	2 734	5 346	4 718	353	493	493	353	493	85	163	33	33	33	33	33	33	33	33	33
Computer equipment operators	6 607	3 126	2 656	3 036	256	333	333	256	333	102	102	25	25	25	25	25	25	25	25	25
Secretaries, stenographers, and typists	159 120	135 706	2 820	138 164	411	13 268	13 268	411	13 268	205	5 469	25	25	25	25	25	25	25	25	25
Stenographers and typists	138 347	2 281	1 957	122 482	231	10 227	10 227	231	10 227	89	4 379	25	25	25	25	25	25	25	25	25
Receptionists	20 773	1 133	1 940	15 682	180	3 041	3 041	180	3 041	116	1 096	25	25	25	25	25	25	25	25	25
Other information clerks	16 017	2 270	1 904	11 702	211	1 583	1 583	211	1 583	113	690	25	25	25	25	25	25	25	25	25
File clerks	4 541	1 480	1 307	2 663	99	269	269	99	269	98	134	25	25	25	25	25	25	25	25	25
Other records processing occupations, except financial	6 992	1 498	1 307	2 663	226	876	876	226	876	85	312	25	25	25	25	25	25	25	25	25
Bookkeepers, accounting, and auditing clerks	36 346	9 318	7 785	22 780	960	3 109	3 109	960	3 109	456	912	25	25	25	25	25	25	25	25	25
Payroll and timekeeping clerks	17 668	1 742	1 345	14 361	246	1 67	1 67	246	1 67	116	339	31	31	31	31	31	31	31	31	31
Other financial records processing occupations	1 310	289	1 021	833	13	153	153	13	153	23	42	25	25	25	25	25	25	25	25	25
Telephone operators	6 343	1 109	5 234	995	4	630	630	4	630	112	156	25	25	25	25	25	25	25	25	25
Mail and message distributing occupations	7 297	3 602	3 695	3 173	518	301	301	518	301	146	156	25	25	25	25	25	25	25	25	25
Production coordinators and expeditors	1 760	635	1 125	964	65	118	118	65	118	36	59	26	26	26	26	26	26	26	26	26
Traffic, shipping, and receiving clerks	1 309	965	344	778	138	24	24	138	24	102	24	30	30	30	30	30	30	30	30	30
Stock and inventory clerks	3 327	2 314	1 013	1 849	318	117	117	318	117	132	56	25	25	25	25	25	25	25	25	25
Other material recording, scheduling, and distributing clerks	827	297	4	428	4	72	72	4	72	10	19	31	31	31	31	31	31	31	31	31
Advisors and investigators	1 620	599	1 021	917	34	49	49	34	49	43	33	25	25	25	25	25	25	25	25	25
Date-entry keyers	3 759	349	3 410	299	25	631	631	25	631	25	175	25	25	25	25	25	25	25	25	25
Other administrative support occupations	81 523	14 646	66 877	54 956	1 965	8 653	8 653	1 965	8 653	758	4 165	25	25	25	25	25	25	25	25	25
Service occupations	305 501	124 183	181 318	96 532	21 196	29 933	29 933	21 196	29 933	8 166	9 061	30	30	30	30	30	30	30	30	30
Private household occupations	19 656	14 892	4 764	11 950	2 451	484	484	2 451	484	639	144	27	27	27	27	27	27	27	27	27
Protective service occupations	18 965	14 235	4 730	11 399	2 357	473	473	2 357	473	575	144	26	26	26	26	26	26	26	26	26
Guards	691	657	34	551	94	551	551	94	551	64	34	37	37	37	37	37	37	37	37	37
Other protective service occupations	285 845	109 291	176 554	84 582	18 745	29 449	29 449	18 745	29 449	7 527	8 917	30	30	30	30	30	30	30	30	30
Food preparation and service occupation	115 495	21 732	93 763	17 082	3 457	11 545	11 545	3 457	11 545	40	40	40	40	40	40	40	40	40	40	40
Health service occupations	5 581	871	4 710	699	92	3 310	3 310	92	3 310	102	362	25	25	25	25	25	25	25	25	25
Cleaning and building service occupations, except household	113 570	78 254	35 316	60 080	14 050	11 149	11 149	14 050	11 149	5 810	2 313	39	39	39	39	39	39	39	39	39
Personal service occupations	51 199	8 434	42 765	6 721	1 146	5 621	5 621	1 146	5 621	540	2 666	25	25	25	25	25	25	25	25	25
Farming, forestry, and fishing occupations	9 013	7 744	1 269	6 288	884	64	64	884	64	747	51	29	29	29	29	29	29	29	29	29
Precision production, craft, and repair occupations	33 521	29 246	4 275	25 604	3 681	446	446	3 681	446	1 346	133	39	39	39	39	39	39	39	39	39
Mechanics and repairers	10 445	9 669	776	8 543	682	75	75	682	75	518	30	34	34	34	34	34	34	34	34	34
Supervisors, mechanics and repairers	768	671	97	653	91	6	6	91	6	39	—	40	40	40	40	40	40	40	40	40
Automobile mechanics, including body	1 437	1 399	38	1 120	24	7	7	24	7	91	12	33	33	33	33	33	33	33	33	33
Industrial machinery repairers	1 461	1 399	62	1 229	62	148	148	62	148	68	—	40	40	40	40	40	40	40	40	40
Electronic repairers, communications and industrial equipment	1 305	1 072	233	934	210	19	19	210	19	23	4	26	26	26	26	26	26	26	26	26
Heating, air conditioning, and refrigeration mechanics	964	964	346	3 770	295	—	—	295	—	40	—	36	36	36	36	36	36	36	36	36
Other mechanics and repairers	4 510	4 164	346	3 770	295	—	—	295	—	40	—	36	36	36	36	36	36	36	36	36
Construction trades	14 311	13 781	530	12 032	427	12	12	427	12	636	17	40	40	40	40	40	40	40	40	40
Supervisors, construction occupations	1 096	1 036	40	923	148	77	77	148	77	6	6	45	45	45	45	45	45	45	45	45
Carpenters	4 643	4 446	217	3 958	148	48	48	148	48	238	6	26	26	26	26	26	26	26	26	26
Electricians	2 862	2 775	87	2 485	88	232	232	88	232	45	—	39	39	39	39	39	39	39	39	39
Painters, construction and maintenance	2 502	2 407	95	2 084	88	7	7	88	7	118	—	40	40	40	40	40	40	40	40	40
Plumbers, pipefitters, and steamfitters	2 206	2 185	21	1 894	21	263	263	21	263	48	—	42	42	42	42	42	42	42	42	42
Other construction trades	982	932	50	738	19	144	144	19	144	52	7	35	35	35	35	35	35	35	35	35

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Educational services, private									
	Race				Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Black		Male		Female	
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male
Precision production, craft, and repair occupations—Con.										
Extraction occupations	34	16	18	16	18	—	—	—	—	—
Precision production occupations	8 731	5 780	2 951	5 013	2 544	—	—	—	—	—
Supervisors, production occupations	2 593	1 580	1 013	1 360	890	281	86	36.8	100.0	11.6
Precision metalworking occupations	1 162	1 103	59	995	28	114	29	40.7	76.7	16.7
Tool and die makers	18	18	—	16	—	70	34	25	85.6	25.6
Machinists	772	739	33	689	16	—	—	—	89.8	7.3
Sheet metal workers	113	106	7	82	7	30	7	—	81.8	6.6
Other precision metal workers	259	240	19	198	12	33	20	23	100.0	4.7
Precision textile, apparel, and furnishings machine workers	579	496	83	418	16	—	—	—	100.0	—
Precision food production occupations	1 455	416	1 039	393	93	106	35	23	72.7	10.0
Precision inspectors, testers, and related workers	2 126	2 059	67	2	55	8	11	23	86.7	14.9
Plant and system operators	791	511	280	471	225	306	83	36.8	100.0	1.6
Other precision production occupations	53 973	27 848	26 125	22 942	23 365	26	27	37.8	88.3	13.4
Operators, fabricators, and laborers	13 714	8 416	5 298	6 965	4 579	3 601	1 682	31.0	74.1	6.2
Machine operators, assemblers, and inspectors	10 926	6 637	4 359	5 484	3 674	935	232	26.6	67.6	7.7
Metalworking and plastic working machine operators	1 48	113	35	91	24	764	174	27.7	77.6	7.8
Fabricating machine operators, n.e.c.	23	21	2	21	2	17	4	25	59.3	16.8
Metal and plastic processing and woodworking machine operators	301	197	104	186	91	—	—	32.9	100.0	—
Printing machine operators	3 056	1 840	1 216	1 494	1 077	6	29	25.8	73.6	7.1
Textile machine operators	25	13	12	13	12	196	33	27.9	83.7	11.0
Textile sewing machine operators	207	17	190	17	177	—	8	33.1	100.0	1.1
Laundering and dry cleaning machine operators	1 091	269	822	216	691	19	29	42.0	58.8	29.4
Packaging and filling machine operators	77	13	32	35	32	—	—	25	50.7	—
Furnace, kiln, and oven operators, except food	1 361	324	37	146	37	14	12	25	63.6	40.0
Other specified machine operators	2 240	1 426	834	1 187	697	157	42	25	100.0	18.2
Miscellaneous and not specified machine operators	2 397	1 422	975	1 113	831	221	81	23	83.0	3.0
Fabricators, assemblers, and hand working occupations	1 971	1 335	636	1 064	565	160	129	25.9	73.3	10.2
Welders and cutters	752	717	32	547	21	87	38	27.1	61.4	2.8
Solders and brazers	12	6	—	6	—	14	88	28.4	88.0	0.1
Assemblers	1 032	514	518	432	467	61	41	25	61.1	0.3
Hand working occupations	175	98	79	79	77	37	29	50.0	100.0	—
Production inspectors, testers, samplers, and weighers	817	444	373	417	340	12	26	25	58.6	5.8
Cleaners and sorters, except agricultural	647	342	305	417	285	11	21	25	81.6	2.9
Other production inspectors, testers, samplers, and weighers	170	102	68	97	55	—	5	25	94.4	13.1
Transportation and material moving occupations	31 895	13 379	18 516	11 166	16 883	—	—	27.3	92.2	27.5
Transportation occupations	31 325	12 863	18 462	10 740	16 835	1 772	494	41.4	62.1	5.5
Motor vehicle operators	31 261	12 800	18 461	10 677	16 834	1 715	494	42.0	72.9	5.4
Truck drivers	2 810	2 316	494	1 849	67	1 402	658	38.7	61.9	2.2
Driver-sales workers	218	131	87	110	421	356	15	32.1	64.9	3.4
Other motor vehicle operators	28 233	10 353	17 880	8 718	16 346	21	479	26.3	71.0	—
Rail and water transportation occupations	64	63	1	63	1	1 338	484	44.9	40.9	5.7
Supervisors, material moving equipment operators	570	516	54	426	48	—	—	35.3	84.1	—
Material moving equipment operators	40	26	14	19	14	57	47	30.9	68.4	8.7
Crane, hoist and winch operators	13	13	—	—	—	—	—	25	100.0	—
Excavating, grading, and dozer machine operators	65	59	6	53	—	6	8	41.5	100.0	—
Other material moving equipment operators	452	418	34	349	28	44	39	30.2	67.8	9.3
Handlers, equipment cleaners, helpers, and laborers	8 364	6 053	2 311	4 811	1 903	894	387	25	70.1	5.7
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	111	50	61	36	54	14	7	40.4	100.0	52.0
Helpers, craft and production	918	704	214	535	152	100	88	25	40.7	31.1
Construction laborers	553	508	45	393	56	66	3	25	65.4	15.6
Freight, stock, and material handlers	1 576	1 241	335	1 020	306	161	54	20	77.8	6.6
Garage and service station occupations, and equipment cleaners	415	294	121	241	94	30	6	25	75.2	4.8
Hand packers and packagers	514	321	193	261	159	45	13	25	54.8	8.1
Laborers, except construction	4 277	2 935	1 342	2 325	1 102	478	166	25	70.5	4.4

¹Persons of Spanish origin may be of any race

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																	
Social services, religious and membership organizations																	
Race			Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed				
Total			White		Black		Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed		
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over																	
Managerial and professional specialty occupations	2 115 878	798 999	1 316 879	682 939	1 071 355	84 358	195 789	35 408	64 786	40.5	37.4	82.3	82.5	48.0	24.3	7.2	3.8
Executive, administrative, and managerial occupations	1 059 425	539 520	519 905	478 008	432 575	44 106	69 533	18 415	21 037	41.4	35.4	92.8	92.4	64.9	47.2	10.0	4.2
Officials and administrators, public administration	269 049	135 275	133 774	119 096	113 664	11 567	16 094	5 351	4 733	42.8	38.9	90.3	92.4	50.8	41.0	1.4	5.4
Financial managers	40	35	5	5	5	10	7	7	7	47.1	50.0	65.7	—	45.7	—	—	—
Managers, marketing, advertising, and public relations	3 254	2 035	1 219	1 103	1 103	63	68	72	30	42.2	41.2	99.2	94.9	77.3	31.3	0.6	0.7
Administrators, education and related fields	2 180	1 435	745	1 378	683	37	55	54	8	41.9	39.7	96.1	91.3	53.5	38.7	0.4	2.7
Managers, medicine and health	25 936	3 469	22 467	2 777	18 426	573	3 456	133	633	37.1	37.7	92.3	91.5	64.9	41.9	12.1	14.7
Other specified managers	5 488	3 012	2 476	2 590	2 035	336	388	111	98	—	—	—	—	—	—	—	—
Managers and administrators, n.e.c.	194 176	104 844	89 352	93 039	77 467	8 603	9 355	3 898	3 063	43.3	39.9	90.1	92.3	50.6	41.0	1.1	4.2
Self-employed	188 079	103 435	84 644	91 729	73 313	8 530	8 919	3 822	2 929	43.2	39.5	90.4	92.9	50.6	41.7	—	—
Management related occupations	6 117	1 409	4 708	1 310	4 154	73	436	76	134	45.2	45.0	90.4	80.9	55.3	28.1	81.8	79.0
Accountants and auditors	37 955	20 445	17 510	17 414	13 945	1 945	2 772	1 076	901	41.5	35.4	90.0	94.1	46.7	39.8	1.1	0.8
Personnel, training, and labor relations specialists	12 083	5 907	6 176	4 862	5 142	485	699	331	239	38.6	38.1	98.1	96.9	65.7	33.5	2.0	0.5
Buyers and purchasing agents	12 941	6 055	6 886	4 745	5 092	960	1 527	441	438	39.6	34.0	90.8	92.0	47.9	47.5	0.5	0.9
Inspectors and compliance officers	1 329	785	544	640	456	109	55	46	26	43.8	37.4	92.7	91.7	24.3	21.5	—	—
Other management related occupations	1 510	1 019	491	891	409	97	77	39	38	36.9	35.4	84.5	82.5	32.3	26.1	—	—
Professional specialty occupations	10 092	6 679	3 413	6 276	2 846	294	414	219	160	45.2	34.9	82.7	95.4	33.8	40.3	1.3	1.3
Engineers, architects, and surveyors	790 376	404 245	386 131	358 912	318 911	32 539	53 439	13 064	16 304	40.8	34.5	93.7	92.4	69.6	49.3	12.9	3.7
Architects	4 755	4 111	644	3 748	3 567	135	43	121	29	38.1	34.5	95.5	97.5	67.4	50.8	1.8	2.6
Engineers	665	609	56	538	35	38	12	20	2	37.1	31.2	97.5	94.6	75.5	71.4	6.7	7.1
Civil engineers	3 879	3 318	561	3 026	505	97	31	101	27	38.8	34.3	95.3	97.7	68.2	47.4	1.0	1.4
Electrical and electronic engineers	783	760	23	674	17	26	—	18	6	37.5	25.8	90.8	73.9	77.6	47.8	1.3	—
Industrial engineers	669	520	149	496	118	19	18	35	6	38.2	36.1	94.0	95.3	58.7	40.9	1.0	5.4
Mechanical engineers	564	332	232	303	218	10	8	—	15	45.7	36.5	95.8	100.0	61.7	37.5	—	—
Other engineers	396	368	28	341	28	13	—	—	—	40.4	26.5	92.9	100.0	55.4	46.4	3.0	—
Surveyors and mapping scientists	1 467	1 338	129	1 212	124	29	5	48	—	38.2	31.3	99.0	100.0	71.7	72.9	0.4	—
Computer systems analysts and scientists	211	184	27	184	27	—	—	—	—	32.3	40.3	92.4	100.0	25.0	77.8	—	18.5
Operations and systems researchers and analysts	849	559	290	538	227	13	54	—	6	35.9	32.3	98.7	97.9	66.4	43.1	1.3	—
Mathematical scientists	699	319	380	284	243	30	87	12	12	35.1	32.9	100.0	96.6	77.4	60.0	—	—
Natural scientists	751	199	552	178	485	38	48	—	36	41.7	34.7	95.5	95.7	71.9	38.9	2.5	0.7
Chemists, except biochemists	2 057	1 470	587	1 259	501	139	65	39	14	39.3	35.7	95.2	92.3	72.9	67.3	4.0	2.4
Other natural scientists	1 192	1 500	42	1 115	36	13	—	12	4	39.5	35.8	94.7	100.0	86.0	54.8	4.0	—
Health diagnosing occupations	1 865	1 320	545	1 144	465	126	65	27	10	39.2	35.7	95.3	91.7	71.4	68.3	4.0	2.6
Health assessment and treating occupations	2 524	1 794	730	1 661	581	47	68	114	40	44.9	39.0	99.6	96.4	97.5	87.5	3.7	6.6
Registered nurses	25 804	2 261	23 543	1 885	20 555	278	2 338	94	545	32.7	38.2	94.0	95.8	65.0	51.5	3.4	1.5
Other health assessment and treating occupations	15 957	394	15 563	13 637	394	36	1 483	27	326	34.4	41.3	99.5	97.9	56.1	44.0	0.9	0.9
Teachers, except postsecondary	9 847	1 867	7 980	1 537	6 918	242	855	67	219	32.4	32.8	92.9	91.8	66.8	66.0	4.1	2.6
Social scientists and urban planners	155 450	10 085	145 365	7 948	120 156	1 609	20 264	548	6 353	30.1	32.5	87.7	91.0	43.7	37.7	3.0	4.6
Social and recreation workers	8 377	4 748	3 629	4 297	3 243	235	259	189	132	34.3	34.1	98.6	97.9	85.2	81.1	8.6	10.4
Lawyers and judges	198 813	70 410	128 403	53 378	96 872	12 391	25 344	5 312	6 902	33.8	34.4	93.8	93.3	64.1	57.1	2.6	2.2
Writers, artists, entertainers, and athletes	7 367	5 763	1 604	5 293	1 393	308	141	42	53	40.3	32.1	98.9	99.4	85.1	73.2	18.0	4.6
Other professional specialty occupations	52 436	22 506	29 930	20 753	28 458	1 195	1 027	476	531	33.1	38.0	93.1	93.1	59.0	52.4	4.2	3.2
Technical, sales, and administrative support occupations	330 494	280 020	50 474	257 690	45 589	16 159	3 481	6 017	1 629	44.1	39.9	93.6	91.6	72.0	56.2	16.9	6.1
Technicians and related support occupations	481 245	59 919	421 326	48 382	356 702	7 670	49 383	3 985	20 484	36.1	39.3	84.1	90.1	32.3	12.3	1.2	0.3
Health technologists and technicians	17 142	7 351	9 791	6 182	7 934	723	1 451	472	477	32.1	33.2	91.6	91.9	41.4	31.8	0.7	0.7
Licensed practical nurses	5 609	846	4 763	3 759	2 916	122	794	645	259	32.3	34.6	93.5	89.9	46.0	22.2	0.7	0.8
Other health technologists and technicians	2 723	39	2 684	54	2 019	5	545	8	186	35.2	38.9	84.7	86.0	6.8	5.3	—	—
Engineering and science technicians	2 886	787	2 099	1 740	1 740	117	249	41	73	32.2	32.0	94.2	95.0	48.9	43.6	0.8	0.3
Electrical and electronic technicians	4 202	2 916	1 286	2 486	1 135	239	130	228	29	31.6	30.7	90.2	93.4	26.5	24.6	0.7	0.9
Industrial and mechanical technicians	340	290	50	263	43	21	7	17	—	33.2	31.1	87.2	72.0	15.5	12.0	—	—
Drafting and surveying technicians	42	23	19	16	19	—	—	—	—	39.5	26.4	73.9	100.0	65.2	22.0	—	—
Other engineering and science technicians	2 279	1 782	497	1 490	641	153	41	133	21	30.8	29.5	91.0	90.3	20.5	26.2	0.3	1.2
Technicians, except health, engineering, and science	1 541	821	720	717	632	65	82	78	21	32.5	31.6	90.0	96.8	42.3	25.0	1.7	0.7
Airplane pilots and navigators	7 321	3 589	3 742	3 051	3 040	362	527	195	189	32.5	32.3	92.2	93.8	52.4	46.5	0.7	0.6
Air traffic controllers and broadcast equipment operators	66	57	9	57	9	—	—	—	—	34.8	40.0	100.0	100.0	43.9	100.0	—	—
Computer programmers	368	233	135	216	90	11	30	19	15	30.6	28.4	97.1	84.4	73.9	5.9	—	—
Other technicians, except health, engineering, and science	2 077	1 274	803	1 107	620	90	144	64	29	31.5	30.3	97.7	90.2	45.7	39.9	0.9	0.8
Other technicians, except health, engineering, and science	4 820	2 025	2 795	1 671	2 321	261	353	112	145	33.4	32.8	90.1	95.3	62.1	50.2	0.9	0.8

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Social services, religious and membership organizations											
	Race						Spanish origin ¹		Median age		Percent high school graduates	
	Total		White		Black		Male	Female	Male	Female	Male	Female
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.												
Supervisors	21 625	9 915	11 710	10 175	524	1 186	307	625	40.3	37.7	85.5	76.1
Sales occupations	1 340	664	594	602	60	53	31	24	44.1	48.0	86.7	79.8
Supervisors and proprietors, sales occupations	1 211	570	559	508	60	53	31	24	43.7	48.7	86.7	79.8
Salaried	129	35	94	94	—	—	—	—	47.9	42.0	85.7	72.6
Self-employed	419	235	184	153	—	24	16	7	43.6	37.5	95.7	89.7
Sales representatives, finance and business services	38	38	38	38	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	19 313	8 554	10 759	9 342	438	1 040	252	574	40.1	36.9	86.1	75.6
Sales workers, retail and personal services	3 092	351	2 741	2 128	57	49	23	322	29.6	38.4	63.8	72.4
Cashiers	16 221	8 018	7 688	7 214	381	614	229	252	40.3	36.5	87.0	76.8
Other sales occupations, retail and personal services	515	412	365	278	26	5	8	20	34.2	31.9	64.1	69.9
Sales related occupations												
Administrative support occupations, including clerical	442 478	42 653	399 825	338 593	6 423	46 746	3 206	19 382	36.6	39.5	82.5	90.4
Supervisors, administrative support occupations	13 614	3 115	10 499	8 144	486	2 040	150	495	40.8	44.1	92.1	94.7
Computer equipment operators	3 834	963	2 871	2 232	187	501	50	108	32.3	32.0	97.3	93.1
Secretaries, stenographers, and typists	238 449	6 221	232 228	205 378	467	20 333	311	8 958	54.7	40.2	82.6	93.3
Secretaries	207 610	5 383	202 227	182 683	318	14 600	162	6 851	56.8	40.7	81.7	94.0
Stenographers and typists	30 839	838	30 001	22 695	149	5 733	149	2 107	31.7	34.9	88.2	88.4
Receptionists	17 289	1 251	16 038	13 054	199	2 074	99	1 472	26.5	36.4	67.5	78.6
Other information clerks	7 403	1 747	5 656	4 505	360	911	136	294	31.0	34.2	67.6	80.8
File clerks	4 849	635	4 214	2 764	124	1 196	78	360	30.5	32.8	78.4	69.5
Other records processing occupations, except financial	3 693	755	2 938	2 228	66	589	59	188	36.1	36.8	74.3	84.4
Bookkeepers, accounting, and auditing clerks	40 433	4 163	36 270	32 220	455	2 780	309	1 260	46.8	43.8	90.0	92.9
Payroll and timekeeping clerks	1 917	565	1 352	1 115	77	423	16	114	42.3	37.7	81.1	80.8
Other financial records processing occupations	3 315	585	2 731	1 499	34	177	16	141	35.6	34.3	90.1	88.0
Telephone operators	3 740	467	3 273	2 475	68	622	40	224	38.8	41.2	59.5	70.9
Mail and message distributing occupations	4 648	2 071	2 577	2 141	488	343	173	140	29.8	37.9	66.8	70.3
Production coordinators and expeditors	3 040	1 072	1 968	1 505	97	378	61	145	30.2	34.9	87.2	90.6
Traffic, shipping, and receiving clerks	1 264	435	829	697	157	84	75	13	33.7	33.8	65.3	76.6
Other material moving, scheduling, and distributing clerks	2 235	1 297	938	996	218	188	129	58	34.2	36.5	80.5	84.2
Admission clerks	1 667	825	842	712	103	80	33	38	32.4	33.9	77.7	71.5
Adjusters, inspectors, and inspectors	14 276	3 209	11 067	8 186	465	2 118	344	1 106	34.2	34.2	92.8	93.2
Date-entry keyers	4 296	644	3 652	2 821	36	934	33	253	29.6	30.7	85.2	90.4
Other administrative support occupations	73 516	12 920	60 596	46 574	2 336	10 975	1 090	4 097	33.7	37.6	82.5	84.6
Service occupations	468 497	126 294	342 203	255 460	22 684	71 475	8 491	21 692	40.8	38.7	51.8	60.9
Private household occupations	10 033	7 326	2 707	2 418	—	—	—	—	—	—	—	—
Protective service occupations	9 573	6 914	2 659	2 374	1 266	218	500	66	34.6	25—	61.2	58.6
Guards	460	412	48	44	20	4	6	12	43.3	32.5	59.4	57.9
Other protective service occupations	458 464	118 968	339 496	253 042	21 418	71 257	7 991	21 626	41.1	38.8	51.2	60.9
Food preparation and service occupation	80 505	19 198	61 307	15 183	2 699	12 573	1 334	3 179	33.7	36.7	46.7	49.7
Health service occupations	25 428	3 251	22 177	14 464	749	6 697	241	1 636	33.2	40.8	74.1	63.0
Cleaning and building service occupations, except household	125 834	77 555	48 279	38 133	13 654	8 362	4 947	2 734	48.5	48.6	44.8	46.5
Personal service occupations	226 697	18 964	207 733	154 325	4 316	43 625	1 469	14 077	29.5	34.3	71.5	67.3
Farming, forestry, and fishing occupations	8 448	5 951	2 497	2 169	512	232	528	130	36.6	28.2	48.9	67.9
Precision production, craft, and repair occupations	30 652	26 098	4 554	3 537	2 580	742	1 354	267	37.7	36.7	65.7	67.9
Mechanics and repairers	5 464	5 122	342	276	421	49	293	24	38.2	32.4	61.4	59.1
Supervisors, mechanics and repairers	328	295	33	31	16	3	86	—	47.1	40.8	68.5	100.0
Automobile mechanics, including body	938	930	682	25	165	6	—	—	30.8	30.0	53.9	100.0
Industrial machinery repairers	455	438	17	17	—	—	—	—	43.5	25—	59.9	15.6
Electronic repairers, communications and industrial equipment	2 575	2 000	575	488	139	16	102	24	35.3	42.0	74.0	70.6
Heating, air conditioning, and refrigeration mechanics	2 575	2 000	575	488	139	16	102	24	35.3	42.0	74.0	70.6
Other mechanics and repairers	16 248	15 445	803	573	1 575	148	860	39	36.7	30.1	45.6	53.2
Construction trades	2 724	1 197	1 527	1 046	35	20	85	16	35.7	38.0	75.3	58.6
Supervisors, construction occupations	5 520	5 199	321	238	697	40	377	14	43.5	30.2	59.9	52.6
Carpenters	2 708	2 674	34	34	225	37	186	9	37.3	30.0	87.2	100.0
Electricians	2 419	2 083	336	197	285	58	195	9	37.3	30.1	87.2	100.0
Painters, construction and maintenance	2 116	2 083	336	197	285	58	195	9	37.3	30.1	87.2	100.0
Plumbers, pipefitters, and steamfitters	2 211	2 125	86	67	309	19	91	—	36.5	31.6	74.4	75.3
Other construction trades	—	—	—	—	—	—	—	—	32.4	25—	62.4	40.7

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Social services, religious and membership organizations																
			Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self employed	
Total			White		Black											
Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Employed persons 16 years and over—Con																
Precision production, craft, and repair occupations—Con																
Extrusive occupations																
8 922	5 519	3 403	4 714	2 682	584	545	—	204	43 0	25—	58 3	72 4	—	—	—	—
2 598	2 039	569	2 204	1 627	300	316	96	106	38 3	37 8	86 0	85 1	23 3	18 7	1 0	1 9
4 627	2 799	1 828	3 000	1 627	300	316	96	106	38 3	37 8	86 0	85 1	40 3	25 3	0 4	2 4
Precision production occupations																
992	592	400	858	462	396	396	8	—	28 1	29 7	66 9	66 9	3 2	12 7	1 3	—
Tool and die makers																
34	29	5	21	18	3	3	—	—	34 4	33 6	51 7	100 0	—	—	—	—
227	215	12	188	12	18	18	—	—	34 4	33 6	51 7	100 0	—	—	—	—
Sheet metal workers																
316	316	—	305	11	—	—	13	—	41 4	—	65 5	—	—	—	—	—
415	353	62	344	59	7	3	—	—	34 3	27 9	66 0	75 8	—	—	3 4	—
Other precision metal workers																
1 058	375	683	283	487	77	135	15	18	44 8	50 8	38 1	49 9	3 2	7 6	3 5	1 5
Precision textile, apparel, and furnishings machine workers																
407	102	305	63	255	39	30	—	—	48 3	51 4	65 7	60 7	—	—	—	—
Precision food production occupations																
71	42	29	28	24	7	5	6	—	57 2	31 5	35 7	82 8	19 0	20 7	—	—
Precision inspectors, testers, and related workers																
960	913	47	759	26	92	21	17	—	45 8	49 2	63 5	57 4	16 5	12 8	0 8	—
Plant and system operators																
807	576	231	519	187	39	35	37	2	36 4	34 5	36 5	41 6	6 8	8 2	2 6	2 2
Other precision production occupations																
Operators, fabricators, and laborers																
67 611	41 217	26 394	32 253	20 912	6 806	4 424	2 635	1 176	33 4	35 0	50 5	51 2	4 7	4 5	0 6	0 7
Machine operators, assemblers, and inspectors																
26 283	13 784	12 499	11 923	10 446	1 335	1 563	848	494	32 0	34 6	52 4	49 4	5 5	34 6	0 4	0 7
Machine operators and tenders, except precision																
13 457	6 786	6 671	5 597	5 487	754	990	480	304	33 1	38 9	57 1	52 3	6 2	6 3	0 5	1 0
Metalworking and plastic working machine operators																
480	358	122	334	122	13	—	5	—	38 3	32 3	45 5	65 6	0 6	16 4	—	—
Fabricating machine operators, n.e.c.																
57	33	24	26	24	—	—	—	—	30 0	25 8	60 6	—	—	—	—	—
Metal and plastic processing and woodworking machine operators																
590	437	153	389	112	19	35	30	—	32 3	32 3	54 7	57 5	6 2	3 9	—	20 3
Printing machine operators																
2 537	1 582	955	1 314	874	158	55	148	13	29 6	36 0	84 3	83 9	9 8	10 1	1 6	0 6
Textile machine operators																
111	45	66	34	38	11	24	—	—	39 4	29 7	71 1	6 2	—	—	—	—
Textile sewing machine operators																
791	47	744	41	597	47	120	—	50	31 1	52 6	61 7	42 9	12 8	6 0	—	0 8
Laundry and dry cleaning machine operators																
2 262	314	1 948	268	1 510	45	342	28	117	45 2	50 5	40 1	39 5	3 8	5 0	—	0 4
Packaging and filling machine operators																
204	100	104	100	104	—	—	—	—	29 3	36 0	26 0	49 0	—	—	—	—
Furnace, kiln, and oven operators, except food																
369	359	10	333	10	26	—	—	—	49 8	52 1	58 2	100 0	5 0	—	—	—
Other specified machine operators																
1 684	966	718	780	540	137	145	84	16	34 4	32 8	52 1	57 4	4 7	6 5	—	0 7
Miscellaneous and not specified machine operators																
4 372	2 430	1 942	1 978	1 556	339	269	185	108	33 3	32 0	46 4	50 8	6 0	5 5	0 3	0 5
Fabricators, assemblers, and hand working occupations																
10 108	5 823	4 285	5 246	3 764	411	411	329	118	30 7	30 6	48 8	39 6	4 0	2 2	0 5	0 4
Welders and cutters																
1 400	1 384	16	1 167	23	102	28	90	23	33 3	25—	60 6	27 5	3 0	13 7	1 4	—
Solders and brazers																
78	24	54	20	33	4	6	—	—	25—	31 7	54 2	—	—	—	—	—
Assemblers																
8 145	4 219	3 926	3 826	3 495	277	336	228	102	29 9	30 4	45 0	40 7	4 5	1 9	0 2	0 3
Hand working occupations																
485	231	254	203	213	28	41	16	16	33 2	32 3	47 6	33 1	6 2	4 3	—	2 4
Production inspectors, testers, samplers, and weighers																
2 718	1 290	1 428	1 080	895	170	162	39	72	33 7	38 8	44 3	42 3	9 2	38 3	—	0 6
Graders and sorters, except agricultural																
1 912	840	1 072	719	895	102	131	22	59	30 6	38 7	28 7	34 0	2 3	1 2	—	0 7
Other production inspectors, testers, samplers, and weighers																
806	450	356	361	300	68	31	17	13	45 8	39 0	73 6	75 3	22 3	10 1	—	—
Transportation and material moving occupations																
20 170	13 306	6 864	9 396	4 851	3 114	1 725	788	373	39 9	38 6	57 1	66 0	4 5	4 1	0 8	0 9
Transportation occupations																
18 756	12 038	6 718	8 318	4 752	2 912	1 684	706	358	40 5	38 8	57 5	66 3	4 6	4 0	0 9	0 9
Motor vehicle operators																
18 579	11 880	6 699	8 272	4 733	2 890	1 684	700	353	40 5	38 9	57 5	66 3	4 6	4 1	0 9	0 9
Truck drivers																
7 847	6 134	1 713	4 496	1 611	1 260	475	300	71	38 3	38 4	56 5	66 7	3 2	3 7	0 7	0 3
Driver-sales workers																
191	127	64	96	60	9	4	8	15	45 3	42 6	57 5	65 6	—	—	5 5	—
Other motor vehicle operators																
10 541	5 619	4 922	3 680	3 512	1 621	1 205	392	267	43 6	38 9	58 8	66 4	6 3	4 2	1 1	1 2
Rail and water transportation occupations																
1 177	158	19	117	19	22	—	6	5	39 6	25—	53 8	—	—	—	—	—
Material moving occupations																
1 414	1 268	146	1 007	99	202	41	82	15	37 1	26 7	52 8	54 8	2 9	6 8	0 3	—
Supervisors, material moving equipment operators																
31	21	10	21	10	—	—	—	—	44 3	30 6	52 4	100 0	33 3	20 0	—	—
Crane, hoist and winch operators																
168	168	—	122	10	23	—	10	—	37 4	30 6	56 5	—	—	—	—	—
Excavating, grading, and dozer machine operators																
86	79	7	79	7	—	—	9	—	41 3	30 0	74 7	100 0	8 9	—	—	—
Other material moving equipment operators																
1 129	1 000	129	785	82	179	41	63	15	36 4	25—	50 5	48 8	2 3	6 2	0 4	—
Handlers, equipment cleaners, helpers, and laborers																
21 158	14 127	7 031	10 934	5 615	2 357	1 136	999	309	31 1	32 9	42 3	43 9	4 1	4 8	0 5	0 5
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.																
136	79	57	54	41	25	16	—	—	37 3	32 2	86 1	86 0	6 3	36 8	—	—
Helpers, craft and production																
790	517	273	392	184	106	83	36	6	26 1	41 5	54 9	36 6	4 6	2 9	—	—
Construction laborers																
1 429	1 361	68	299	37	273	29	164	141	33 5	36 0	48 1	44 1	2 4	22 1	—	—
Freight, stock, and material handlers																
2 650	2 355	295	1 717	192	489	82	141	10	34 3	37 1	46 1	55 6	4 9	8 8	0 4	—
Garage and service station occupations, and equipment cleaners																
444	273	171	212	141	47	30	33	—	31 9	38 4	35 5	36 3	2 6	4 1	—	—
Hand packers and packagers																
3 946	2 046	1 900	1 734	1 048	248	139	91	62	29 6	31 1	39 1	46 3	5 8	31 2	0 2	0 7
Laborers, except construction																
11 763	7 496	4 267	5 991	3 328	1 169	757	534	231	30 4	32 9	39 9	42 3	3 7	4 8	0 8	0 6

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Other professional and related services																
	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed				
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female			
	Both sexes	Male	Female	Male	Female	Male									Female		
Employed persons 16 years and over	2 068 263	1 210 111	858 152	1 130 972	793 710	36 220	38 420	33 419	28 315	37.1	32.9	96.0	94.1	70.5	25.6	30.6	9.4
Managerial and professional specialty occupations	1 188 613	951 184	237 429	903 477	222 192	17 597	7 867	20 257	5 621	38.4	33.9	98.6	97.3	82.2	58.8	37.2	26.4
Executive, administrative, and managerial occupations	382 115	271 748	110 367	260 036	103 217	4 887	3 531	5 480	2 709	37.4	33.9	98.4	97.3	77.6	44.6	28.6	11.5
Officials and administrators, public administration	18	78	—	18	—	—	—	—	—	41.9	—	100.0	—	—	—	—	—
Financial managers	5 617	4 175	1 442	3 966	1 353	63	39	99	53	36.2	35.2	98.8	98.2	82.5	38.6	8.0	4.1
Managers, marketing, advertising, and public relations	3 139	2 305	834	2 228	804	20	18	18	12	41.1	33.9	97.9	97.0	65.9	41.0	6.6	5.0
Administrators, education and related fields	607	409	198	395	191	5	—	—	—	44.3	33.9	91.2	100.0	66.5	64.6	3.2	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	4 876	3 211	1 665	2 973	1 512	193	109	87	19	41.2	35.3	96.7	97.2	65.3	41.5	4.1	0.7
Managers and administrators, n.e.c.	89 793	56 382	33 411	53 292	31 047	1 281	1 424	1 256	1 060	42.8	36.4	97.5	96.8	68.0	33.4	8.5	5.5
Salaried	82 460	51 475	30 985	48 571	28 711	1 209	1 400	1 143	993	42.6	35.8	97.6	96.8	68.1	32.7	8.5	—
Self-employed	7 333	4 907	2 426	4 721	2 336	72	24	113	67	44.9	44.3	96.1	97.3	67.6	42.5	97.6	75.8
Management related occupations	278 065	205 248	72 817	197 164	68 310	3 325	1 941	4 009	1 565	35.0	32.9	98.7	97.5	80.5	49.8	35.3	14.7
Accountants and auditors	246 608	185 081	61 527	178 134	57 830	2 617	1 379	3 619	1 354	34.8	33.3	99.0	97.8	82.7	52.7	37.4	15.9
Personnel, training, and labor relations specialists	4 918	2 552	2 366	2 217	2 057	219	231	99	72	40.2	32.6	96.6	94.7	59.9	39.3	6.2	4.1
Buyers and purchasing agents	2 450	1 520	930	1 420	813	71	89	38	25	43.8	34.8	93.2	93.8	26.7	28.4	3.6	5.6
Inspectors and compliance officers	3 776	3 388	1 188	3 403	1 335	101	47	69	114	40.9	30.4	89.1	83.5	23.1	10.6	1.5	—
Other management related occupations	20 313	12 507	7 806	11 990	7 475	317	195	184	114	37.0	37.6	98.0	96.3	74.9	34.3	23.1	10.0
Professional specialty occupations	806 498	679 436	127 062	643 441	118 975	12 710	4 336	14 777	2 912	38.8	33.9	98.7	97.4	84.0	71.2	40.6	39.4
Engineers, architects, and surveyors	242 213	232 814	9 399	213 365	8 425	4 183	333	6 531	405	39.1	31.1	98.2	97.5	73.4	74.3	17.1	12.5
Architects	166 989	62 492	4 497	58 358	4 158	1 060	103	2 235	185	38.6	31.2	99.4	99.8	85.8	86.7	30.1	19.5
Engineers	156 547	152 013	4 534	137 291	3 927	2 824	220	3 726	205	40.0	31.2	99.7	97.8	74.9	65.8	11.3	5.7
Civil engineers	46 202	44 850	1 352	40 151	1 180	859	49	1 174	45	37.7	30.2	99.2	98.4	80.9	72.6	8.4	3.3
Electrical and electronic engineers	20 418	19 932	486	18 226	458	417	37	415	10	39.6	39.4	98.8	95.9	69.3	53.7	9.6	7.2
Industrial engineers	3 089	2 875	214	2 728	171	316	36	351	18	44.4	28.6	97.7	97.2	61.3	32.7	13.6	2.8
Mechanical engineers	14 882	13 768	314	12 530	270	316	36	351	18	44.4	28.6	97.7	97.2	61.3	32.7	13.6	2.8
Other engineers	72 756	70 588	2 168	63 656	1 858	1 175	91	1 153	117	41.1	32.6	98.9	98.7	75.3	67.4	12.7	6.4
Surveyors and mapping scientists	18 677	18 309	368	17 616	340	299	10	570	15	33.5	28.4	89.9	92.1	19.1	28.3	20.9	11.1
Computer systems analysts and scientists	5 239	3 983	1 256	3 725	1 099	85	36	133	40	34.2	30.7	98.5	97.1	73.2	69.4	2.5	2.9
Operations and systems researchers and analysts	2 721	2 227	494	2 109	441	224	25	30	6	40.1	33.0	98.1	98.8	69.8	64.6	3.3	1.2
Mathematical scientists	3 968	2 880	1 088	2 708	1 022	63	49	207	6	35.8	31.6	99.5	98.7	90.6	75.0	8.3	3.5
Natural scientists	21 252	17 788	3 464	16 553	3 065	414	104	127	30	38.3	31.0	99.0	97.9	88.8	80.9	16.3	4.7
Chemists, except biochemists	4 086	3 134	952	2 789	784	93	33	47	51	37.2	32.3	99.2	98.0	87.5	81.9	7.2	3.2
Other natural scientists	17 166	14 654	2 512	13 764	2 281	321	71	154	76	38.6	30.6	99.0	97.8	89.0	80.6	18.3	5.3
Health diagnosing occupations	1 411	1 151	260	1 072	235	28	15	15	22	41.3	33.7	99.7	98.1	96.7	85.4	25.5	18.1
Health assessment and treating occupations	2 069	456	1 613	1 415	1 423	30	138	6	13	35.6	35.8	95.2	97.8	74.8	56.9	24.8	6.3
Registered nurses	1 055	119	936	119	830	74	—	—	4	33.1	39.6	95.0	99.4	63.9	47.0	18.5	1.6
Other health assessment and treating occupations	1 014	337	677	296	593	30	64	6	9	36.4	32.9	95.3	95.7	78.6	70.5	27.0	12.9
Teachers, except postsecondary	3 575	958	2 617	861	2 367	63	149	50	82	35.6	38.5	94.3	93.9	63.2	49.9	16.7	31.8
Social scientists and urban planners	12 572	7 962	4 610	7 526	4 271	224	211	188	76	38.2	36.3	99.2	97.2	91.5	86.0	21.3	33.8
Social and recreation workers	3 158	1 998	1 160	1 172	1 423	183	280	82	70	35.6	32.6	96.0	94.8	72.8	64.7	26.3	8.2
Lawyers and judges	373 577	331 505	42 072	322 778	39 385	5 193	1 750	4 677	1 096	38.7	31.9	99.7	98.4	97.6	85.3	56.8	25.0
Writers, artists, entertainers, and athletes	119 858	69 484	50 374	64 756	48 280	1 943	918	2 543	770	39.0	38.6	95.2	96.6	53.9	58.8	57.5	70.1
Other professional specialty occupations	14 885	6 830	8 055	6 401	7 539	243	328	284	199	37.4	34.2	96.4	97.0	81.3	70.2	17.0	2.6
Technical, sales, and administrative support occupations	793 071	192 895	600 176	172 197	555 577	10 692	26 912	9 102	21 614	31.7	32.3	91.8	93.8	32.7	12.9	7.4	3.0
Technicians and related support occupations	172 956	125 096	47 860	112 848	43 219	5 104	2 571	5 777	1 550	31.2	29.9	93.2	93.2	30.6	43.9	50.0	2.4
Health technologists and technicians	1 785	844	941	715	805	40	90	51	46	33.7	32.3	96.6	94.9	67.5	47.6	5.5	1.7
Licensed practical nurses	229	74	155	60	125	10	26	19	18	35.0	35.1	100.0	87.7	24.3	—	—	—
Other health technologists and technicians	1 556	770	786	655	680	30	64	32	28	33.6	31.8	96.2	96.3	71.7	57.0	6.0	0.8
Engineering and science technicians	117 727	100 865	16 862	91 240	14 918	4 029	969	4 926	817	30.9	28.1	93.0	94.4	23.0	29.9	40.0	2.6
Electrical and electronic technicians	5 288	4 823	465	4 332	365	94	94	173	28	37.9	31.8	93.2	92.0	15.0	11.2	2.8	—
Industrial and mechanical engineering technicians	1 310	1 258	52	1 125	50	72	92	22	17	42.3	25.7	95.7	100.0	30.2	9.6	24.5	—
Drafting and surveying technicians	94 452	81 669	12 783	73 896	11 481	3 077	514	4 367	654	30.1	27.5	93.3	94.9	21.3	28.3	41.1	3.2
Other engineering and science technicians	16 677	13 115	3 562	11 887	3 022	666	359	364	135	33.7	29.6	93.7	92.8	35.4	38.3	2.2	0.8
Technicians, except health, engineering, and science	53 444	23 387	30 057	20 893	27 496	1 035	1 512	800	687	32.2	30.7	93.7	96.9	62.2	51.7	8.9	2.3
Airplane pilots and navigators	180	173	7	166	7	—	—	—	—	38.6	25	97.1	100.0	38.7	—	—	—
Air traffic controllers and broadcast equipment operators	327	249	78	238	66	11	4	—	—	32.3	37.1	100.0	100.0	35.3	28.2	7.6	—
Computer programmers	7 744	4 980	2 764	4 999	2 400	184	160	131	68	30.3	29.6	98.5	98.0	60.3	52.1	1.9	2.0
Other technicians, except health, engineering, and science	45 193	17 985	27 208	15 999	25 023	840	1 348	669	619	32.8	30.8	92.2	96.8	63.3	51.7	11.0	2.3

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States														
Other professional and related services														
Both sexes	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White											
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.														
Sales occupations	16 340	9 818	6 522	9 428	5 912	223	360	244	39.4	32.6	56.1	29.0	16.2	7.6
Supervisors and proprietors, sales occupations	1 382	874	508	852	466	16	26	24	39.6	33.3	53.1	44.7	19.0	10.6
Salaries	1 443	974	442	873	471	17	26	24	39.6	33.3	53.1	44.7	19.0	10.6
Self-employed	7 593	5 985	1 604	5 779	1 442	107	74	49	39.9	31.8	53.2	49.8	9.6	81.8
Sales representatives, finance and business services	1 203	1 187	1 004	1 142	1 142	5	5	5	46.3	30.0	45.7	31.4	10.2	11.7
Sales representatives, commodities, except retail	5 943	1 187	1 004	5 779	1 442	107	74	49	41.7	31.8	53.2	49.8	9.6	81.8
Sales workers, retail and personal services	1 316	1 543	4 300	1 520	3 894	95	260	167	46.3	32.9	65.7	25.8	17.4	5.7
Cashiers	4 627	1 389	3 238	1 331	3 073	40	85	122	25	26.9	21.7	9.3	16.7	7.6
Other sales occupations, retail and personal services	221	125	96	125	96	—	—	4	33.6	36.8	57.6	34.2	32.8	7.3
Sales related occupations	603 775	57 981	545 794	49 921	506 446	5 365	23 981	19 820	32.0	32.6	33.1	10.0	11.3	3.0
Administrative support occupations, including clerical	20 594	9 827	10 767	9 035	7 816	513	402	359	36.4	35.6	49.3	17.8	9.0	1.2
Supervisors, administrative support occupations	11 535	2 998	8 537	2 577	7 700	248	575	255	28.7	28.6	26.7	9.5	1.2	0.1
Computer equipment operators	366 596	2 300	363 296	2 929	340 591	175	13 509	12 869	32.2	32.3	32.7	8.7	5.3	0.8
Secretaries, stenographers, and typists	342 622	2 614	340 008	2 311	320 036	151	11 570	11 822	32.2	32.3	33.2	8.8	4.1	0.7
Secretaries	19 974	686	23 288	618	20 555	24	1 939	1 047	29.8	32.3	30.9	7.5	9.8	3.1
Stenographers and typists	19 252	411	18 841	304	16 982	77	216	58	25	27.8	24.1	10.2	1.2	0.8
Receptionists	3 505	1 139	2 366	1 000	2 061	75	246	56	27.5	33.8	51.0	24.2	9.6	1.7
Other information clerks	8 527	2 111	6 416	1 547	5 377	429	700	378	25	25	19.9	8.2	0.2	0.5
File clerks	3 006	887	2 119	632	1 815	154	185	130	27.6	29.0	37.7	26.2	0.7	0.6
Other records processing occupations, except financial	95 484	13 772	81 712	12 469	77 556	646	1 795	786	39.2	38.2	35.3	11.0	33.4	14.7
Bookkeepers, accounting, and auditing clerks	1 508	169	1 339	145	1 187	20	101	65	29.0	33.2	22.5	8.2	—	1.5
Payroll and timekeeping clerks	3 178	513	2 665	481	2 359	13	204	86	34.3	30.9	48.7	15.2	8.2	3.4
Other financial records processing occupations	1 851	70	1 781	3 635	1 999	—	—	50	29.3	40.5	10.0	3.2	—	—
Telephone operators	7 320	5 021	2 299	3 635	1 850	196	342	354	25	25	6.3	3.5	—	—
Mail and message distributing occupations	2 596	1 403	1 193	1 234	1 000	97	135	75	36.2	31.4	40.1	26.6	2.5	1.0
Production coordinators and expeditors	1 873	654	219	516	277	176	110	27	31.9	28.1	8.0	2.3	2.1	—
Traffic, shipping, and receiving clerks	1 912	1 079	833	802	742	214	70	33	31.5	32.5	93.0	96.1	2.1	—
Stock and inventory clerks	3 360	1 701	1 659	361	1 922	8	13	14	35.3	29.6	17.9	9.4	0.6	—
Other material recording, scheduling, and distributing clerks	11 330	887	10 443	708	8 565	132	1 344	606	29.4	29.2	31.6	17.7	5.5	1.2
Adjusters and investigators	40 749	11 649	29 100	9 915	25 477	1 167	2 537	1 283	28.1	31.3	31.1	8.8	2.1	0.6
Date-entry keyers	27 596	16 124	11 472	11 872	8 376	3 404	2 554	1 239	38.9	39.0	9.7	13.2	1.7	1.7
Service occupations	7 741	6 700	1 041	5 114	746	1 364	208	48	45.7	30.5	11.1	14.2	—	—
Private household occupations	7 101	6 135	966	4 617	675	1 308	204	396	45.9	31.4	10.7	13.5	1.4	—
Guards	640	565	75	497	71	56	4	8	45.2	25	16.1	24.0	—	—
Other protective service occupations	19 855	9 424	10 431	6 758	7 630	2 040	2 346	833	33.6	40.2	8.7	13.1	2.0	1.9
Service occupations, except protective and household	1 573	560	1 013	329	667	167	295	69	26.2	37.6	10.7	4.4	—	—
Food preparation and service occupation	1 275	243	1 032	203	288	40	288	10	29.3	31.8	35.8	14.9	—	1.3
Health service occupations	11 719	7 306	4 413	5 104	2 942	1 709	1 257	653	36.3	46.8	4.0	3.0	2.0	1.4
Cleaning and building service occupations, except household	5 288	1 315	3 973	1 122	3 312	124	506	101	28.9	34.7	29.4	26.0	3.3	3.1
Personal service occupations	5 767	4 348	1 419	3 522	1 290	581	79	46	31.9	26.2	14.9	22.8	0.5	0.8
Farming, forestry, and fishing occupations	24 098	22 170	1 928	20 161	1 682	1 297	139	115	39.3	33.3	19.0	23.4	3.7	5.6
Precision production, craft, and repair occupations	6 062	5 715	347	5 097	292	425	37	41	38.7	32.4	8.4	28.5	0.3	1.4
Mechanics and repairers	520	501	19	466	19	24	—	19	47.8	32.9	14.8	63.2	0.6	—
Supervisors, mechanics and repairers	484	459	25	408	25	29	—	39	35.6	25	7.8	52.0	4.8	—
Automobile mechanics, including body	548	498	50	442	42	12	—	8	42.6	42.5	2.4	8.0	5.2	—
Industrial machinery repairers	918	866	52	803	40	35	6	6	33.7	29.6	8.1	30.8	6.2	—
Electronic repairers, communications and industrial equipment	452	437	15	398	5	39	10	9	43.6	37.5	0.9	—	2.5	—
Heating, air conditioning, and refrigeration mechanics	3 140	2 954	186	2 580	161	286	21	108	37.3	32.7	9.6	29.0	6.3	2.7
Other mechanics and repairers	7 352	6 998	354	6 441	308	356	30	325	38.6	29.8	17.4	29.9	2.3	9.9
Construction trades	2 403	2 340	63	2 250	44	49	14	62	45	43.2	26.0	23.8	1.7	—
Supervisors, construction occupations	1 479	1 394	85	1 257	73	87	7	28	33.0	29.5	67.2	25.9	5.7	—
Carpenters	1 476	1 445	31	1 302	31	110	9	55	38.9	25	81.0	100.0	0.5	—
Electricians	648	523	125	436	110	45	9	6	39.2	38.2	57.6	38.4	4.2	23.2
Painters, construction and maintenance	662	661	1	621	1	24	—	—	39.6	40.0	5.7	—	0.8	—
Plumbers, pipefitters, and steamfitters	684	635	49	575	49	41	—	6	30.6	28.9	9.0	42.9	1.3	12.2
Other construction trades														

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States														
Employed persons 16 years and over—Con.														
Other professional and related services														
Both sexes	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college		Percent self-employed	
	Total		White		Black		Male	Female	Male	Female	Male	Female	Male	Female
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Precision production, craft, and repair occupations—Con.														
Extrusive occupations	234	227	212	7	15	—	—	—	33.0	25.0	28.6	25.6	6.2	28.6
Precision production occupations	10 450	9 230	8 411	1 075	501	72	288	52	40.2	35.0	28.6	25.6	6.2	28.6
Supervisors, production occupations	3 566	3 032	2 797	469	165	28	99	24	41.7	36.4	20.0	26.7	3.7	3.4
Precision metalworking occupations	2 235	2 140	1 944	81	95	8	80	7	37.0	29.7	21.2	33.2	2.2	11.6
Tool and die makers	208	208	202	—	—	—	—	—	34.3	—	9.5	11.5	0.6	—
Machinists	1 421	382	1 252	39	71	—	59	—	37.1	25.0	—	3.2	2.2	—
Sheet metal workers	227	227	215	—	—	—	7	—	42.6	—	—	8.8	—	—
Other precision metal workers	379	323	275	42	17	8	14	7	33.8	33.5	16.1	18.3	5.2	19.6
Precision textile, apparel, and furnishings machine workers	128	109	75	12	14	—	—	—	28.8	46.2	19.3	57.9	57.9	24.8
Precision food production occupations	39	48	27	11	21	—	—	—	41.3	35.8	54.5	14.6	—	—
Precision inspectors, testers, and related workers	391	356	349	26	—	4	24	—	39.0	45.3	68.6	7.0	2.0	—
Plant and system operators	3 273	3 115	2 788	154	202	4	71	—	41.4	33.4	26.6	36.9	4.1	—
Other precision production occupations	798	520	499	239	6	14	14	10	34.2	31.7	19.1	24.8	12.3	10.1
Operators, fabricators, and laborers	29 118	23 390	19 743	4 593	2 649	869	1 664	354	30.6	30.4	11.6	9.6	2.5	2.9
Machine operators, assemblers, and inspectors	13 986	9 975	8 381	3 291	1 735	519	725	297	31.9	30.9	74.7	11.4	3.5	3.2
Machine operators and tenders, except precision	8 581	5 882	4 800	2 251	1 075	344	472	199	30.9	31.5	11.8	11.5	3.1	2.7
Metalworking and plastic working machine operators	439	390	305	35	75	14	26	10	37.1	33.5	83.7	13.6	1.5	—
Fabricating machine operators, n.e.c.	26	20	20	6	—	—	3	—	26.3	25.0	—	40.0	—	—
Metal and plastic processing and woodworking machine operators	302	270	218	26	37	6	32	—	32.7	27.5	93.8	17.4	4.4	—
Printing machine operators	1 834	1 220	1 027	540	126	46	94	32	32.1	32.6	85.0	10.2	1.4	0.3
Textile machine operators	44	37	23	7	14	—	—	—	32.4	40.0	83.8	24.3	—	—
Textile sewing machine operators	70	12	10	17	2	35	2	—	37.5	57.8	72.4	—	—	—
Laundry and dry cleaning machine operators	78	32	32	33	—	13	—	—	25.0	56.5	56.3	56.3	28.1	—
Package and filling machine operators	66	30	20	36	10	—	—	—	25.0	36.7	23.3	10.9	23.3	—
Forcive, kin, and oven operators, except food	175	175	175	—	—	—	—	—	37.2	30.4	81.3	9.3	3.8	6.4
Other specified machine operators	2 089	1 341	1 897	680	129	40	150	24	27.8	30.4	83.2	11.3	3.5	2.0
Miscellaneous and not specified machine operators	3 458	2 355	1 919	871	304	190	165	133	30.1	30.4	15.2	11.3	3.5	2.0
Fabricators, assemblers, and hand working occupations	3 406	2 521	2 176	862	225	140	214	81	30.9	29.8	58.8	10.2	6.3	4.5
Welders and cutters	1 208	1 190	1 013	18	145	—	123	—	32.8	25.0	11.6	3.4	4.7	22.2
Solders and brazers	51	32	19	28	—	—	—	—	25.0	41.7	—	—	—	—
Assemblers	2 110	1 210	1 049	694	73	135	91	81	28.8	29.6	65.6	16.9	6.2	1.8
Hand working occupations	237	102	135	95	7	5	—	—	34.3	29.6	80.0	12.7	27.5	21.5
Production inspectors, testers, samplers, and weighers	1 799	1 572	1 402	178	115	35	39	17	38.5	30.7	66.1	13.2	0.6	2.6
Order carriers, except agricultural	89	33	33	42	—	—	8	—	25.0	28.2	32.1	—	—	—
Other production inspectors, testers, samplers, and weighers	1 710	1 539	1 372	136	115	35	39	9	38.7	31.4	3.5	13.5	0.6	3.5
Transportation and material moving occupations	3 957	3 561	2 771	332	653	54	188	15	38.4	31.2	62.7	8.8	1.7	1.5
Transportation occupations	2 816	2 491	1 917	261	459	54	154	6	37.7	31.0	73.0	72.0	1.3	1.8
Motor vehicle operators	2 548	2 238	1 917	246	435	54	154	6	37.5	32.6	58.8	3.9	5.8	1.9
Truck drivers	1 792	1 613	1 256	158	278	21	98	—	34.1	29.4	82.7	3.3	2.0	3.4
Driver-sales workers	47	45	43	2	2	—	—	—	33.1	40.0	100.0	13.3	—	—
Other motor vehicle operators	709	580	396	86	155	33	49	6	48.2	36.4	58.9	4.7	—	—
Rail and water transportation occupations	268	253	222	15	24	—	39.5	25	36.0	44.3	53.3	20.9	2.8	—
Material moving equipment operators	1 141	1 070	854	71	194	—	34	9	39.8	30.2	23.9	16.1	—	—
Supervisors, material moving equipment operators	57	57	44	—	13	—	—	—	52.2	86.0	35.1	35.1	—	—
Crane, hoist and winch operators	168	160	146	8	14	—	—	—	43.5	49.4	100.0	15.0	4.4	—
Excavating, grading, and dozer machine operators	106	88	77	18	5	—	9	—	32.6	25.0	50.0	37.5	—	—
Other material moving equipment operators	810	765	587	45	162	—	25	—	39.0	32.3	68.9	12.4	3.0	—
Handlers, equipment cleaners, helpers, and laborers	11 175	9 854	8 591	970	921	296	751	42	26.8	28.5	67.9	8.0	1.7	2.4
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	283	243	225	35	18	5	10	—	41.5	41.7	27.5	22.2	4.9	—
Helpers, craft and production	5 237	4 948	4 643	227	175	40	302	5	25.0	25.4	85.5	6.2	0.5	2.8
Construction laborers	626	590	502	21	69	15	36	—	31.5	26.4	58.3	24.7	71.5	—
Freight, stock, and material handlers	444	369	291	59	69	11	27	—	30.3	28.9	82.7	6.0	2.4	—
Garage and service station occupations, and equipment cleaners	107	68	56	32	12	7	—	—	28.3	25.7	87.2	13.2	—	17.9
Hand packers and packagers	397	243	179	145	46	—	41	6	32.3	35.0	55.8	13.2	—	—
Laborers, except construction	4 081	3 393	2 695	451	532	218	335	31	30.9	30.2	60.9	6.4	3.5	2.5

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Public administration														Percent self-employed	
	Race						Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college			
	Total		White		Black											
	Both sexes	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
Employed persons 16 years and over	5 147 466	3 044 899	2 102 567	2 579 443	1 623 858	329 360	373 141	151 035	103 729	39.1	35.7	86.4	89.4	30.6	17.5	
Managerial and professional specialty occupations	1 578 969	1 039 974	538 995	920 354	430 932	76 175	84 326	39 493	21 728	41.4	36.8	95.0	95.1	59.7	42.1	
Executive, administrative, and managerial occupations	939 079	620 275	318 804	549 003	258 907	46 844	44 253	24 127	12 496	43.5	39.1	93.3	94.8	50.4	30.6	
Officials and administrators, public administration	348 572	238 188	110 384	213 449	94 362	16 717	12 774	7 998	3 672	45.1	41.7	91.6	94.0	48.4	28.2	
Financial managers	6 640	4 474	1 967	4 136	1 657	355	264	176	70	41.8	38.8	98.4	94.6	74.7	32.0	
Managers, marketing, advertising, and public relations	1 430	1 038	438	946	417	61	64	41	9	44.8	41.6	95.5	96.9	53.6	32.4	
Administrators, education and related fields	4 305	2 507	1 798	2 151	1 392	233	280	67	61	44.2	41.1	97.3	92.4	80.7	58.2	
Managers, medicine and health	2 221	1 283	928	1 157	687	92	173	35	20	44.3	41.1	98.3	94.9	86.4	58.2	
Monarchs	28 885	18 775	10 110	16 307	7 840	1 734	1 829	825	293	43.7	39.3	95.9	96.1	56.6	31.9	
Other specified managers	122 269	81 850	40 419	71 870	32 755	6 339	5 610	3 330	1 511	43.4	39.2	94.0	94.4	53.4	35.4	
Managers and administrators, n.e.c.	122 269	81 850	40 419	71 870	32 755	6 339	5 610	3 330	1 511	43.4	39.2	94.0	94.4	53.4	35.4	
Self-employed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Management related occupations	424 756	271 960	152 796	238 987	119 880	21 326	25 269	11 655	6 860	41.9	37.0	94.1	95.4	50.0	30.5	
Accountants and auditors	131 444	74 949	56 495	65 710	44 607	5 236	8 429	2 616	2 138	37.7	37.7	98.8	96.1	71.7	25.5	
Personnel, training, and labor relations specialists	11 739	45 962	45 777	38 034	34 553	5 675	8 919	2 778	2 670	40.6	36.3	95.4	95.9	54.3	36.7	
Buyers and purchasing agents	16 077	9 522	6 555	8 532	5 438	558	901	395	252	45.6	41.4	92.6	95.6	28.5	10.4	
Inspectors and compliance officers	129 984	110 988	18 996	99 598	14 923	3 188	3 188	4 922	991	45.4	34.7	89.7	91.1	30.8	34.4	
Other management related occupations	55 512	30 539	24 973	27 113	20 359	2 205	3 852	944	809	41.0	37.3	97.7	96.4	66.8	32.5	
Professional specialty occupations	639 890	419 699	220 191	371 351	172 025	29 331	38 073	15 366	9 232	38.6	34.1	97.5	95.6	73.3	58.7	
Engineers, architects, and surveyors	106 992	102 853	4 139	92 963	3 579	3 749	3 117	2 984	169	42.1	31.2	98.1	98.2	71.1	55.4	
Architects	5 085	4 349	736	3 878	666	196	18	163	41	39.1	32.0	98.7	98.9	79.9	76.1	
Engineers	98 991	95 747	3 244	86 637	2 766	3 444	293	2 739	128	42.3	31.1	98.3	98.6	72.1	51.4	
Civil engineers	32 158	31 292	866	27 851	731	1 064	81	828	15	42.0	28.3	98.4	99.0	69.3	49.1	
Electrical and electronic engineers	16 334	16 077	257	14 778	235	512	11	432	26	41.3	32.1	99.4	100.0	81.9	63.0	
Industrial engineers	7 499	6 691	808	6 081	730	282	57	311	35	45.7	34.1	96.8	96.4	53.2	46.7	
Mechanical engineers	6 103	5 922	1 134	5 287	134	277	31	116	7	43.2	30.5	95.8	95.6	70.7	34.8	
Other engineers	36 897	35 765	1 139	32 640	936	1 309	113	1 052	45	42.4	30.5	98.3	100.0	74.0	56.4	
Surveyors and mapping scientists	2 916	2 757	152	2 448	147	109	6	82	—	36.8	28.5	92.3	88.1	19.3	42.1	
Computer systems analysts and scientists	23 415	17 713	5 702	16 123	4 624	1 006	850	377	146	39.5	35.8	98.5	96.8	53.7	45.0	
Operations and systems researchers and analysts	16 081	11 166	4 915	10 088	3 918	680	832	260	110	41.8	36.7	98.8	98.1	61.9	47.1	
Mathematical scientists	11 472	7 262	4 210	6 400	3 083	481	916	242	130	37.3	34.6	99.2	98.0	84.3	56.6	
Natural scientists	62 255	52 616	9 639	48 461	8 231	2 221	826	1 245	252	37.3	31.6	97.2	97.2	78.5	72.1	
Chemists, except biochemists	8 942	6 984	1 958	6 091	1 586	492	190	154	83	40.5	34.0	99.0	99.0	88.8	80.3	
Other natural scientists	53 313	45 632	7 681	42 370	6 645	1 729	636	1 091	169	36.7	31.1	97.2	96.7	76.9	69.9	
Health diagnosing occupations	9 141	7 566	1 575	6 799	1 255	338	173	327	68	46.8	39.8	99.7	98.4	95.1	85.7	
Health assessment and treating occupations	35 021	9 559	25 462	8 374	21 589	907	2 752	435	651	32.3	40.2	96.4	96.7	33.3	50.0	
Registered nurses	19 628	9 533	18 665	843	16 190	965	1 798	34	330	36.7	42.7	98.0	98.1	47.0	45.6	
Other health assessment and treating occupations	15 393	8 596	6 797	7 531	5 399	812	954	401	321	32.0	32.9	96.2	92.8	31.7	62.1	
Teachers, except postsecondary	20 040	10 664	9 376	8 900	7 244	1 128	1 577	429	313	39.2	33.7	91.8	89.8	43.8	48.0	
Social scientists and urban planners	34 154	24 772	9 382	22 323	7 763	1 381	1 247	813	359	35.7	32.4	99.1	96.8	88.2	77.0	
Social and recreation workers	152 897	60 368	92 529	47 425	66 726	9 612	22 019	4 434	4 608	34.4	33.9	96.8	94.8	70.6	57.2	
Lawyers and judges	95 075	74 579	20 496	69 315	17 839	3 669	2 016	1 812	1 980	38.3	32.6	97.9	98.2	90.9	78.8	
Writers, artists, entertainers, and athletes	43 511	24 774	18 737	21 407	15 475	2 048	2 099	1 268	1 175	39.3	33.9	94.1	94.7	50.8	46.6	
Other professional specialty occupations	29 836	15 807	14 029	12 773	10 699	2 111	2 449	740	671	38.4	35.3	96.7	95.1	69.5	65.0	
Technical, sales, and administrative support occupations	1 893 969	562 163	1 331 806	465 823	1 038 147	68 990	226 597	28 859	67 927	39.3	34.7	90.5	91.4	29.5	9.3	
Technicians and related support occupations	261 282	176 349	84 931	156 926	69 396	11 601	11 769	7 037	2 966	37.2	32.6	93.9	92.6	27.3	22.5	
Health technologists and technicians	12 889	6 152	6 737	5 173	4 657	626	1 656	260	227	33.4	37.4	94.7	90.0	40.0	23.3	
Licensed practical nurses	3 124	3 308	2 816	2 041	1 697	74	945	29	157	34.0	41.4	93.8	84.5	6.8	3.5	
Other health technologists and technicians	9 765	5 844	3 921	4 969	2 960	552	711	231	70	33.4	34.3	94.7	94.0	41.8	37.5	
Engineering and science technicians	82 279	66 910	15 369	59 310	12 405	4 321	2 465	3 384	522	39.4	33.7	93.6	92.7	20.4	23.6	
Electrical and electronic technicians	27 465	24 077	3 388	21 567	2 297	1 562	937	980	125	42.2	37.9	95.0	90.3	10.1	7.0	
Industrial and mechanical engineering technicians	1 221	1 045	176	890	147	102	17	66	15	44.4	35.2	91.7	90.3	30.1	22.7	
Drafting and surveying technicians	25 383	20 392	4 991	17 765	4 292	1 337	434	1 311	166	35.4	33.7	93.3	93.8	22.2	26.6	
Other engineering and science technicians	28 210	21 396	6 814	19 088	5 669	1 320	858	1 027	216	38.7	32.0	92.3	91.8	29.9	29.8	
Technicians, except health, engineering, and science	166 114	103 287	62 827	92 443	52 334	6 654	7 867	3 393	2 217	36.2	32.0	94.0	92.9	31.0	22.2	
Airplane pilots and navigators	2 536	2 471	65	2 398	58	44	7	27	—	38.8	31.9	97.0	100.0	39.8	26.2	
Air traffic controllers and broadcast equipment operators	80 969	50 944	30 025	46 796	26 411	2 688	2 558	1 703	1 146	36.4	31.9	91.5	89.7	14.6	7.2	
Computer programmers	29 635	18 990	10 645	16 630	8 602	1 464	1 464	566	209	34.8	33.0	98.3	96.6	45.1	38.4	
Other technicians, except health, engineering, and science	52 974	30 882	22 092	26 619	17 263	2 577	3 838	1 097	862	36.6	33.0	95.2	95.3	48.7	34.6	

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States														
	Employed persons 16 years and over—Con.														
	Technical, sales, and administrative support occupations—Con.														
	Sales occupations														
Supervisors and proprietors, sales occupations	3 041	2 101	940	1 808	14 480	998	2 936	513	1 182	44.0	38.9	90.5	83.7	37.9	7.8
Salaries	3 041	2 101	940	1 808	14 480	998	2 936	513	1 182	44.0	38.9	90.5	83.7	37.9	7.8
Self-employed	3 041	2 101	940	1 808	14 480	998	2 936	513	1 182	44.0	38.9	90.5	83.7	37.9	7.8
Sales representatives, finance and business services	7 390	5 998	1 392	5 613	1 176	235	81	117	73	44.0	39.3	97.0	96.0	51.6	28.0
Sales representatives, commodities, except retail	389	235	154	192	136	18	18	20	—	44.9	45.0	94.5	96.8	51.1	13.6
Sales workers, retail and personal services	22 237	5 893	16 344	5 068	12 528	523	2 699	317	1 086	42.9	38.6	84.5	82.2	24.3	5.2
Cashiers	13 723	2 106	11 617	1 717	8 842	268	1 940	91	831	44.1	38.8	84.2	82.4	17.5	3.4
Other sales occupations, retail and personal services	8 514	3 787	4 727	3 351	3 686	255	759	226	255	42.4	38.2	84.6	81.7	28.1	9.8
Sales related occupations	302	234	68	219	55	5	7	—	19	40.5	32.3	97.9	86.8	38.5	33.8
Administrative support occupations, including clerical	1 599 328	371 353	1 227 975	295 997	954 071	56 391	211 892	21 309	63 779	40.3	34.8	89.0	91.4	30.2	8.4
Supervisors, administrative support occupations	188 295	116 961	71 334	100 039	55 072	13 037	13 544	5 189	2 941	45.5	42.4	89.7	93.5	35.7	17.5
Computer equipment operators	39 185	15 966	23 219	12 630	17 001	2 432	5 129	862	1 140	34.6	33.0	95.5	93.0	16.7	5.9
Secretaries, stenographers, and typists	526 482	14 796	511 686	11 134	408 873	2 452	76 830	1 116	27 222	36.1	33.2	89.7	93.2	21.9	5.1
Secretaries	333 795	4 940	328 855	3 845	274 246	708	39 766	301	16 144	37.3	33.9	88.2	94.3	33.8	5.6
Stenographers and typists	192 687	9 856	182 831	7 289	134 627	1 744	37 064	815	11 078	35.6	31.9	90.5	91.3	15.9	4.3
Receptionists	27 086	2 570	24 516	2 024	18 525	437	4 314	150	1 828	40.5	34.5	85.0	85.7	25.6	7.1
Other information clerks	56 594	18 395	38 199	14 108	30 306	3 036	5 708	1 278	2 004	31.9	34.5	91.1	90.6	34.5	18.5
File clerks	35 733	7 652	28 081	4 875	18 012	2 268	8 473	511	1 983	30.2	29.7	84.7	77.0	15.1	4.7
Other records processing occupations, except financial	30 267	7 483	22 784	5 709	16 802	1 362	4 650	621	1 224	38.7	36.6	86.5	90.5	25.4	9.7
Bookkeepers, accounting, and auditing clerks	83 095	16 513	66 582	13 869	56 654	1 522	6 401	852	2 445	38.1	40.3	94.9	93.5	42.8	7.9
Payroll and timekeeping clerks	16 738	2 637	14 101	2 055	10 660	372	2 662	209	678	34.7	38.2	89.9	92.2	14.3	5.0
Other financial records processing occupations	4 438	3 302	1 136	2 773	4 904	348	1 023	182	250	40.4	38.6	92.8	92.3	45.7	18.2
Telephone operators	10 850	1 138	9 712	7 799	7 483	248	1 884	139	461	33.1	32.9	76.5	82.6	9.1	3.6
Mail and message distributing occupations	21 192	11 227	9 965	6 710	6 995	3 825	2 881	646	483	32.0	32.9	74.8	81.4	8.4	5.6
Production coordinators and expeditors	23 496	12 337	11 159	10 387	8 413	1 207	2 273	892	472	42.0	36.2	89.2	91.5	35.1	20.0
Traffic, shipping, and receiving clerks	6 669	3 654	3 015	2 405	2 200	804	676	325	216	42.2	36.6	75.5	87.6	11.2	7.5
Stock and inventory clerks	40 654	21 793	18 861	15 892	13 966	4 474	3 871	1 793	817	42.5	39.4	82.1	90.4	9.5	5.3
Other material recording, scheduling, and distributing clerks	7 181	4 042	3 139	3 472	2 746	444	242	140	166	40.3	33.7	80.0	88.2	11.2	7.7
Adjusters and investigators	71 517	25 002	46 515	21 342	34 191	2 693	10 462	1 187	2 114	35.5	34.7	96.4	95.9	59.0	27.5
Date-entry keyers	40 887	2 807	38 080	1 999	26 687	565	8 724	302	2 313	30.7	31.2	92.6	92.1	18.5	3.6
Other administrative support occupations	363 969	83 078	280 891	63 575	214 581	14 865	52 345	4 915	15 022	38.2	36.8	87.9	88.9	26.2	8.9
Service occupations	1 141 732	957 322	184 410	819 264	123 127	105 610	49 940	43 274	11 387	36.0	40.2	85.2	64.0	13.0	7.5
Private household occupations	915 363	829 486	85 877	735 342	67 334	72 098	16 066	31 973	3 551	35.7	37.3	90.4	78.7	14.3	—
Protective service occupations	96 323	57 790	38 533	46 612	31 352	8 730	6 294	2 829	1 438	43.0	43.8	69.9	65.4	13.8	3.2
Other protective service occupations	819 040	771 696	47 344	688 730	35 982	63 368	9 772	29 144	2 113	35.4	33.0	91.9	89.6	14.3	17.7
Service occupations, except protective and household	326 369	127 836	98 533	83 922	55 793	33 512	33 874	11 301	7 836	37.8	46.9	52.1	51.1	5.0	4.2
Food preparation and service occupation	23 521	5 280	18 241	3 794	10 589	1 192	6 240	302	1 436	34.6	41.2	81.0	65.8	17.0	5.4
Cleaning and building service occupations, except household	134 712	101 165	33 547	67 045	17 070	26 266	13 584	8 921	2 921	41.4	45.4	47.9	36.2	2.6	1.4
Personal service occupations	35 537	10 666	24 871	6 846	14 772	2 605	7 845	1 038	2 345	32.1	39.0	69.8	63.9	21.9	9.2
Farming, forestry, and fishing occupations	55 512	50 704	4 808	38 610	3 493	7 385	926	5 728	330	34.1	25.0	56.6	62.6	6.0	7.1
Precision production, craft, and repair occupations	252 812	240 450	12 362	199 971	8 776	25 456	2 674	17 694	654	41.9	38.7	73.3	73.9	4.6	9.2
Mechanics and repairers	128 105	124 216	3 889	105 546	2 963	11 294	709	9 401	268	40.6	38.1	75.5	79.3	3.2	3.9
Supervisors, mechanics and repairers	8 407	8 269	138	7 412	82	408	46	454	9	48.2	49.4	82.3	88.4	6.7	4.3
Automobile mechanics, including body	28 349	27 970	379	23 003	318	3 096	56	2 350	13	38.3	37.1	67.5	67.0	2.0	1.8
Industrial machinery repairers	8 805	8 818	187	7 417	123	818	58	532	—	41.8	33.7	68.0	86.1	2.7	9.6
Electronic repairers, communications and industrial equipment	12 930	12 367	563	10 728	454	853	69	754	10	40.1	37.9	90.6	84.5	5.1	4.4
Heating, air conditioning, and refrigeration mechanics	5 455	5 404	51	4 601	38	472	7	478	22	45.2	58.3	73.3	100.0	1.9	—
Other mechanics and repairers	64 159	61 588	2 571	52 385	1 948	5 647	473	4 833	214	39.7	37.5	76.4	78.5	3.1	3.8
Construction trades	71 236	68 703	2 533	54 741	1 776	8 225	556	4 826	143	42.5	30.9	65.7	65.0	3.8	5.2
Supervisors, construction occupations	8 368	8 160	208	7 331	152	511	147	1 295	48	48.9	35.4	73.7	93.3	10.7	20.7
Carpenters	16 613	16 092	521	12 052	328	2 253	112	1 299	48	41.7	25.0	56.7	65.8	3.2	4.4
Electricians	17 840	17 159	681	14 614	504	1 677	158	1 481	31	41.8	34.0	80.2	81.8	3.1	3.4
Painters, construction and maintenance	10 757	10 109	648	7 600	584	2 129	94	1 880	55	40.3	28.9	54.0	54.8	2.1	2.3
Plumbers, pipefitters, and steamfitters	9 485	9 557	128	7 636	82	1 132	39	757	82	40.3	27.2	66.3	89.8	2.4	4.7
Other construction trades	7 973	7 626	347	6 008	203	1 223	106	454	9	38.3	28.4	58.1	63.7	2.3	6.1

¹Persons of Spanish origin may be of any race.

Table 1. Selected Characteristics of Employed Persons by Occupation, Industry, and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Public administration												
United States												
Both sexes	Race				Spanish origin ¹		Median age		Percent high school graduates		Percent completed 4 or more years of college	
	Total		White		Male	Female	Male	Female	Male	Female	Male	Female
	Male	Female	Male	Female								
Precision production, craft, and repair occupations—Con.												
Extractive occupations	582	522	440	52	8							
Precision production occupations	52 889	47 009	39 244	3 985	1 401	243	44.6	46.1	66.7	70.0	4.8	28.3
Supervisors, production occupations	19 481	16 598	13 842	2 107	698	877	44.8	42.3	78.7	74.2	9.5	14.3
Precision metalworking occupations	16 408	15 637	13 180	603	1 345	64	46.8	41.9	81.3	89.7	16.1	23.5
Tool and die makers	592	576	531	16	14	34	46.7	57.7	76.3	68.0	2.9	1.6
Machinists	7 829	7 546	6 432	209	636	16	41.0	33.2	82.6	68.2	3.5	—
Sheet metal workers	5 724	5 348	4 457	310	69	560	41.3	41.4	74.0	68.2	2.8	2.1
Other precision metal workers	2 263	2 167	1 760	68	24	120	48.1	48.1	74.0	71.8	1.6	—
Precision textile, apparel, and furnishings machine workers	1 743	1 538	1 205	341	57	56	47.6	51.0	73.3	56.3	5.6	—
Precision food production occupations	1 624	1 347	965	185	241	60	48.6	42.1	62.1	41.4	0.7	—
Precision inspectors, testers, and related workers	3 370	3 183	2 828	149	190	38	47.2	33.4	88.9	96.4	7.9	—
Plant and system operators	8 318	8 126	6 860	104	939	75	43.0	31.0	77.1	84.9	10.7	25.0
Other precision production occupations	1 945	1 580	1 228	280	210	31	41.6	35.8	76.6	69.0	8.5	9.6
Operators, fabricators, and laborers	224 472	194 286	135 421	19 383	45 744	8 678	39.6	35.7	58.0	64.9	3.7	5.2
Machine operators, assemblers, and inspectors	68 090	55 050	42 452	8 639	9 293	3 377	40.4	36.7	70.1	68.8	4.9	6.7
Machine operators and tenders, except precision	43 664	34 580	25 874	5 816	6 675	2 442	40.0	38.0	69.1	68.8	5.8	5.6
Metalworking and plastic working machine operators	1 610	1 285	1 037	269	176	49	36.6	39.2	74.5	70.5	12.9	9.2
Fabricating machine operators, n.e.c.	251	222	202	25	16	4	47.4	33.6	70.7	55.2	—	20.7
Metal and plastic processing and woodworking machine operators	2 718	2 416	1 713	225	489	74	45.7	39.9	65.6	60.3	2.6	2.6
Printing machine operators	7 413	5 575	3 945	1 329	336	87	36.7	35.3	84.2	83.7	4.6	4.0
Textile machine operators	522	93	66	51	27	4	44.3	48.2	62.4	14.7	23.7	2.6
Textile sewing machine operators	371	91	26	127	54	118	34.8	47.1	39.6	32.1	6.6	—
Laundry and dry cleaning machine operators	1 041	416	307	350	89	248	39.0	47.0	63.5	42.6	7.0	1.0
Packaging and filling machine operators	290	151	64	116	72	21	47.6	41.1	58.9	54.0	4.0	—
Furnace, kiln, and oven operators, except food	5 987	5 894	4 980	88	594	5	41.1	48.6	73.9	65.6	4.0	5.4
Other specified machine operators	5 815	4 062	3 010	1 245	759	376	36.8	34.1	64.8	79.4	7.0	8.4
Miscellaneous and not specified machine operators	17 646	14 375	10 524	1 991	3 063	1 117	40.1	37.7	63.2	71.4	4.1	6.9
Fabricators, assemblers, and hand working occupations	14 907	12 783	9 872	1 444	1 916	517	38.5	33.0	65.8	64.3	3.0	3.7
Welders and cutters	7 257	7 046	5 628	1 337	803	62	37.8	37.7	62.6	64.9	1.8	—
Solders and brazers	152	107	67	25	17	12	34.8	37.1	80.4	62.2	14.0	—
Assemblers	5 847	4 288	3 024	1 034	951	417	37.7	33.5	68.6	65.3	3.7	3.4
Hand working occupations	1 651	1 342	1 153	248	145	26	43.6	33.7	73.0	58.9	5.7	8.1
Production inspectors, testers, samplers, and weighers	9 519	7 687	6 706	1 379	702	418	45.0	36.1	81.5	81.0	16.1	15.7
Graders and sorters, except agricultural	1 546	950	813	479	94	97	44.5	34.7	63.7	74.0	10.0	9.2
Other production inspectors, testers, samplers, and weighers	7 973	6 737	5 893	900	608	321	45.0	36.6	84.0	84.4	17.0	18.9
Transportation and material moving occupations												
Transportation occupations	76 519	69 792	48 140	4 582	17 697	1 806	43.4	38.4	51.9	62.1	2.5	2.6
Motor vehicle operators	55 739	50 590	34 065	4 221	13 878	1 641	43.4	38.9	50.9	60.9	2.6	2.6
Truck drivers	54 154	5 980	1 945	1 628	13 660	1 628	43.2	38.8	50.5	60.9	2.4	2.4
Other motor vehicle operators	38 558	36 166	24 305	4 068	10 196	385	42.8	39.6	57.0	57.6	1.6	2.5
Other material moving occupations	15 303	11 481	7 860	2 621	444	170	31.8	38.8	59.0	57.0	4.5	—
Rail and water transportation occupations	2 582	3 827	2 160	740	318	107	44.6	38.3	51.3	62.6	5.1	2.3
Material moving equipment operators	19 780	19 202	12 720	553	3 819	163	46.9	32.7	59.3	59.3	7.8	10.7
Supervisors, material moving equipment operators	412	587	14 075	34	117	6	43.5	32.7	74.7	74.7	2.8	—
Crane, hoist, and winch operators	1 499	1 499	1 400	25	335	—	48.0	55.4	86.9	100.0	10.7	12.0
Excavating, grading, and dozer machine operators	2 754	2 722	2 244	24	327	8	48.4	38.3	75.0	86.1	0.8	—
Other material moving equipment operators	14 915	14 394	10 337	312	3 020	157	42.4	31.7	57.8	73.5	2.5	2.5
Handlers, equipment cleaners, helpers, and laborers	79 863	69 444	44 829	6 162	18 754	3 495	34.4	32.8	54.5	60.6	3.2	4.9
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	893	698	581	122	96	73	45.9	37.1	81.8	84.6	27.5	28.7
Helpers, craft and production	4 902	4 201	2 946	411	877	261	30.0	39.0	63.4	65.3	3.2	4.9
Construction laborers	5 827	5 527	3 793	188	1 257	83	34.1	25.1	54.5	58.3	3.9	8.0
Freight stock and material handlers	7 566	6 792	3 871	406	2 355	313	33.7	35.2	50.1	60.5	3.6	1.7
Garage and service station occupations, and equipment cleaners	3 250	3 007	1 834	138	935	70	33.6	29.0	53.5	44.9	1.0	2.9
Hand packers and packagers	5 100	3 643	2 106	931	1 244	461	40.8	39.2	60.3	63.7	2.2	2.7
Laborers, except construction	52 325	45 576	29 498	3 966	11 990	2 234	34.5	31.4	53.6	59.4	2.9	5.0

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Total, all industries				Agriculture, forestry, and fisheries				Mining				Construction, total			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed males 16 years and over	16 632	17 318	11 423	11 854	11 237	11 784	6 112	7 613	20 320	20 754	13 845	15 422	15 371	15 929	9 854	11 901
Managerial and professional specialty occupations	24 773	25 248	16 718	19 442	21 145	21 473	13 789	16 557	32 163	32 573	19 490	24 407	25 963	26 379	14 962	20 992
Executive, administrative, and managerial occupations	25 671	26 222	16 933	18 838	20 862	20 979	12 228	18 101	35 087	35 474	21 303	26 619	26 837	27 290	14 327	20 982
Officials and administrators, public administration	22 169	22 460	15 563	20 359	25 805	25 805	—	—	9 105	9 105	—	9 105	16 368	16 447	14 543	16 531
Financial managers	26 832	27 100	18 977	21 407	24 132	24 264	13 789	16 557	36 189	36 233	40 005	27 489	29 513	30 591	22 008	18 823
Managers, marketing, advertising, and public relations	28 616	28 863	19 974	21 865	20 451	20 546	9 637	16 390	34 470	34 471	34 217	38 846	30 114	30 216	23 011	22 430
Administrators, education and related fields	23 703	24 051	20 840	20 560	50 199	50 199	—	—	81 786	81 786	—	—	32 247	34 381	15 033	—
Managers, medicine and health	25 704	26 413	18 319	21 154	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	22 370	22 938	16 472	15 201	19 511	19 864	12 903	13 711	27 592	27 861	20 157	20 966	24 426	24 637	16 834	19 139
Managers and administrators, n.e.c.	27 589	28 214	16 284	19 439	21 267	21 507	12 320	19 465	42 163	42 374	26 779	34 602	28 743	29 246	14 027	22 183
Managers and administrators	28 404	29 030	16 417	19 577	21 945	22 378	11 762	16 165	41 573	41 772	26 800	35 124	31 937	31 699	13 873	22 262
Self-employed	20 980	21 336	15 089	18 535	19 009	18 609	13 798	31 703	47 666	47 961	20 914	22 971	20 914	21 188	13 479	21 985
Management related occupations	21 510	21 937	15 876	16 973	17 887	17 915	12 066	16 048	24 444	24 835	18 509	19 624	19 342	19 556	14 299	16 948
Accountants and auditors	21 532	21 976	15 468	17 259	18 914	19 151	19 907	15 912	23 628	24 057	15 443	19 990	21 016	21 219	17 768	16 660
Personnel, training, and labor relations specialists	21 101	21 770	16 485	15 494	15 106	15 291	10 781	14 800	26 869	27 444	22 641	17 258	23 862	24 429	14 240	18 027
Buyers and purchasing agents	19 407	19 827	14 558	16 358	18 427	19 292	8 419	16 625	22 424	22 550	20 639	22 179	19 376	19 486	14 805	22 045
Inspectors and compliance officers	17 857	18 043	15 591	16 203	12 795	13 190	14 430	11 593	22 335	22 660	15 808	18 506	15 771	15 794	13 992	14 825
Other management related occupations	24 889	25 327	16 665	19 254	22 869	23 241	16 299	22 662	33 482	34 030	23 378	15 505	25 723	26 793	7 953	16 713
Professional specialty occupations	23 739	24 102	16 510	20 184	21 401	21 744	14 421	14 778	28 816	29 204	17 441	22 052	23 565	23 742	16 862	21 017
Engineers, architects, and surveyors	24 534	24 751	19 254	21 403	21 624	21 692	15 294	14 473	27 518	27 876	16 241	21 878	24 044	24 188	17 528	22 002
Architects	23 921	24 223	17 692	19 899	15 792	15 743	15 803	14 132	24 117	24 117	—	—	23 699	23 244	18 484	21 156
Engineers	24 756	24 972	19 589	21 848	20 539	21 002	10 603	15 771	28 029	28 403	16 256	22 616	24 304	24 480	17 878	22 310
Civil engineers	24 405	24 611	18 798	21 929	20 613	21 144	8 493	16 650	25 926	26 614	19 849	33 358	24 227	24 387	18 343	22 269
Electrical and electronic engineers	24 507	24 702	20 387	21 909	16 317	16 345	—	16 005	26 880	27 047	19 965	21 509	21 922	22 025	18 627	15 214
Industrial engineers	22 133	22 278	19 083	19 736	23 145	22 072	—	12 505	23 729	24 059	10 965	21 509	21 922	22 025	18 627	15 214
Mechanical engineers	24 796	24 999	19 590	21 289	20 403	20 764	—	13 786	24 152	24 434	8 627	23 414	25 112	25 181	16 697	20 038
Other engineers	26 043	26 334	19 534	22 656	20 623	20 923	13 036	14 205	28 573	28 945	15 851	22 263	24 629	24 997	13 927	22 902
Surveyors and mapping scientists	16 383	16 593	9 404	13 731	14 057	13 920	—	14 205	16 972	17 058	16 972	16 310	15 450	15 434	11 509	15 923
Computer systems analysts and scientists	23 405	23 600	20 942	21 291	22 838	22 271	17 106	21 475	26 031	26 464	18 227	29 998	22 661	22 658	17 382	19 864
Operations and systems researchers and analysts	23 584	23 797	20 815	20 497	18 570	18 949	15 005	—	27 220	27 601	19 155	25 609	23 179	23 320	21 205	19 864
Mathematical scientists	25 085	25 528	19 804	21 415	25 776	27 007	10 909	—	30 362	30 764	18 018	22 005	18 797	18 969	13 126	20 332
Natural scientists	22 964	23 291	17 505	20 280	17 138	17 414	10 909	13 717	30 392	30 764	18 018	22 005	19 129	19 368	14 607	18 849
Chemists, except biochemists	22 063	22 416	18 463	18 436	19 445	20 285	—	4 005	22 650	22 964	15 783	20 597	19 016	19 829	8 005	18 849
Other natural scientists	23 399	23 691	16 698	21 208	17 132	17 384	10 909	13 937	31 412	31 731	20 138	22 497	19 148	19 300	13 243	14 698
Health diagnosing occupations	50 669	50 884	41 361	51 458	31 976	32 084	29 212	23 307	53 989	53 989	13 910	—	21 543	21 543	18 605	—
Health assessment and treating occupations	18 098	18 525	13 609	14 793	19 394	21 145	4 092	8 005	13 910	13 018	13 505	—	21 552	22 287	3 925	—
Registered nurses	16 589	16 911	13 904	14 528	16 294	16 294	—	—	10 081	5 108	—	—	18 872	18 872	—	—
Other health assessment and treating occupations	18 522	18 932	13 474	14 906	20 467	23 187	4 092	8 005	15 426	15 932	13 505	—	22 655	23 775	3 925	—
Teachers, except postsecondary	15 894	16 109	13 887	13 289	15 090	15 834	7 785	19 255	21 478	21 397	—	—	15 440	16 178	10 215	—
Social scientists and urban planners	24 568	24 906	18 788	19 384	20 147	20 409	8 005	72 005	32 580	32 717	25 405	29 605	26 177	26 667	16 699	20 332
Social and recreation workers	14 099	14 643	12 330	11 896	12 190	13 192	8 312	—	15 602	15 602	—	—	12 966	12 414	12 500	—
Lower and judges	37 117	37 525	25 772	28 343	20 356	20 709	—	—	40 140	40 379	28 010	23 597	36 759	36 931	29 023	27 391
Writers, artists, entertainers, and athletes	16 896	17 156	14 023	13 982	12 005	12 277	8 080	9 404	25 517	26 269	21 056	11 350	19 278	19 562	14 395	17 109
Other professional specialty occupations	16 510	16 796	13 144	13 344	16 851	16 963	16 775	16 505	18 600	19 055	7 005	—	16 458	16 298	18 614	15 668
Technical, sales, and administrative support occupations	16 768	17 290	12 038	12 366	14 285	14 665	8 405	10 664	19 223	19 555	14 453	15 040	17 898	18 253	11 226	14 133
Technicians and related support occupations	17 326	17 669	13 963	14 209	14 736	15 106	9 982	9 960	18 588	18 823	15 635	14 972	18 163	18 436	11 666	15 157
Health technicians and technicians	13 697	13 907	11 981	12 790	8 937	8 916	10 936	1 096	17 094	17 297	8 464	15 475	18 626	18 810	15 661	18 542
Licensed practical nurses	10 912	11 009	10 724	11 001	4 473	6 02	10 925	—	14 095	14 095	9 731	—	21 490	21 490	20 405	20 405
Other health technicians and technicians	13 973	14 180	12 190	12 939	9 041	9 051	10 938	1 096	17 381	18 089	6 880	15 475	18 081	18 212	15 661	14 815
Engineering and science technicians	16 326	16 555	13 862	13 777	12 000	12 396	9 355	9 606	17 644	17 875	15 163	15 240	18 281	18 561	11 462	15 375
Electrical and electronic technicians	16 837	17 031	15 364	14 964	19 442	20 129	10 909	12 088	19 917	19 869	11 736	19 802	17 481	17 580	14 288	11 045
Industrial and mechanical engineering technicians	19 363	19 630	14 442	15 824	16 283	16 283	—	—	19 423	19 423	11 480	20 505	21 595	22 053	9 005	8 005
Drafting and surveying technicians	14 985	15 156	12 566	12 826	9 828	9 905	10 381	8 569	17 335	17 510	14 289	14 841	14 361	14 523	11 275	14 025
Other engineering and science technicians	17 029	17 334	13 761	13 957	13 293	13 355	7 226	11 003	17 362	17 543	15 221	14 779	20 910	21 118	11 357	18 463
Technicians, except health, engineering, and science	19 480	20 112	15 450	15 755	19 534	19 810	12 344	16 233	21 083	21 334	17 235	13 556	16 714	16 864	12 809	12 740
Airplane pilots and navigators	36 234	36 466	23 570	25 370	23 382	23 382	1 064	19 237	23 993	25 969	28 325	29 937	21 711	21 304	9 364	10 440
Air traffic controllers and broadcast equipment operators	18 716	19 001	16 447	18 301	17 376	17 486	1 064	18 210	19 015	19 937	14 485	14 505	12 680	12 778	12 301	11 815
Computer programmers	17 967	18 121	16 570	18 126	16 570	16 570	—	—								

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Total, all industries				Agriculture, forestry, and fisheries				Mining				Construction, total			
	Race				Race				Race				Race			
	Total	White	Black	Spanish origin ¹	Total	White	Black	Spanish origin ¹	Total	White	Black	Spanish origin ¹	Total	White	Black	Spanish origin ¹
United States																
Employed males 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con																
Sales occupations	18 412	18 830	11 343	12 912	15 462	15 711	8 138	11 036	24 140	24 276	16 574	17 780	20 908	21 108	14 058	16 724
Supervisors and proprietors, sales occupations	19 601	19 908	13 565	15 412	20 156	19 715	8 005	12 985	27 356	27 804	6 464	12 930	23 284	23 590	14 127	16 305
Salaried	20 377	20 718	13 827	15 412	18 779	18 158	—	12 985	27 356	27 334	6 464	12 930	23 284	23 590	14 127	20 574
Self-employed	17 682	17 896	12 836	14 806	25 519	25 702	8 005	11 659	35 898	35 898	—	—	19 831	20 190	16 555	5 870
Sales representatives, finance and business services	24 220	24 619	14 666	19 175	15 932	16 094	10 131	11 659	25 287	25 287	—	—	19 831	20 190	16 555	5 870
Sales representatives, commodities, except retail	22 022	22 275	14 880	15 759	14 912	15 258	8 735	11 485	24 076	24 148	19 779	19 214	28 776	28 950	14 647	16 555
Sales workers, retail and personal services	11 357	11 644	8 321	8 888	9 192	9 470	5 265	6 709	17 268	18 172	—	7 883	11 805	11 850	7 987	24 096
Cashiers	7 719	7 839	7 060	7 087	6 829	6 975	4 479	6 608	7 168	7 347	—	8 013	11 953	11 661	14 164	1 205
Other sales occupations, retail and personal services	12 097	12 344	8 870	9 531	10 381	10 431	9 885	6 857	19 747	20 900	—	7 738	11 759	11 905	14 164	9 489
Sales related occupations	17 958	18 320	9 558	10 457	22 556	22 556	—	—	24 006	24 006	—	—	12 752	12 601	9 205	—
Administrative support occupations, including clerical	14 355	14 846	11 924	12 535	12 959	12 959	7 148	11 257	18 221	18 581	13 663	14 700	15 308	15 742	10 307	12 372
Supervisors, administrative support occupations	20 515	21 002	16 688	16 101	17 201	17 794	11 340	13 067	25 944	26 355	18 289	17 952	20 577	21 054	13 202	16 949
Computer equipment operators	14 203	14 613	12 229	12 222	16 548	16 868	10 851	16 298	16 041	16 554	11 621	15 991	14 833	14 983	14 009	12 399
Secretaries, stenographers, and typists	13 504	14 362	9 098	9 167	17 135	18 169	—	6 567	17 266	17 922	11 812	5 386	19 566	20 123	5 293	17 620
Secretaries	14 294	14 916	9 686	9 715	19 183	19 859	—	7 958	17 115	17 857	11 812	5 386	22 014	22 090	8 396	20 221
Stenographers and typists	12 242	13 668	8 568	8 650	7 515	8 118	—	1 005	18 344	18 344	—	—	7 671	8 161	3 313	7 417
Receptionists	7 550	7 585	7 829	6 561	6 561	6 567	6 005	6 547	11 819	11 819	16 005	—	7 399	7 399	—	7 405
Other information clerks	12 147	12 492	9 931	11 151	7 733	7 733	2 431	6 547	16 517	16 909	—	4 755	11 283	11 283	7 587	26 007
File clerks	10 790	11 558	7 956	7 732	9 025	9 988	—	3 005	11 795	11 787	12 071	9 216	10 855	11 585	8 585	9 439
Other records processing occupations, except financial	11 693	12 156	9 556	9 916	9 157	9 368	6 452	12 901	16 832	16 682	5 139	9 727	13 805	14 123	10 621	10 911
Bookkeepers, accounting, and auditing clerks	13 289	13 589	11 073	10 746	12 451	12 523	6 472	12 494	17 172	17 517	10 428	11 493	14 488	14 556	14 600	12 132
Payroll and timekeeping clerks	14 752	15 087	13 219	11 956	12 272	11 463	13 005	20 588	17 704	17 427	34 341	12 342	13 137	13 199	10 320	10 326
Other financial records processing occupations	14 486	15 303	10 360	11 004	13 612	13 730	8 601	13 031	22 154	22 189	13 675	—	15 539	15 627	11 498	10 728
Telephone operators	11 271	11 777	9 344	9 332	8 601	8 601	—	—	13 031	12 668	17 525	—	7 656	7 129	10 091	8 128
Production occupations, except machine tool operators	15 222	15 512	14 213	13 515	7 195	7 427	5 855	10 605	10 968	10 835	11 100	10 759	7 777	7 439	8 112	7 252
Machine tool operators and expeditors	16 213	16 544	13 474	13 362	12 244	13 474	12 351	9 512	20 481	20 785	18 419	17 039	17 069	17 498	9 518	15 782
Traffic, shipping, and receiving clerks	11 614	11 906	10 549	9 856	10 250	10 250	6 404	9 015	15 018	15 039	14 535	15 994	11 436	11 896	9 834	10 872
Stock and inventory clerks	11 240	11 529	9 889	9 654	9 634	9 869	6 919	10 029	16 007	16 140	14 559	14 710	11 223	11 676	7 623	9 446
Other material recording, scheduling, and distributing clerks	14 853	15 229	12 500	12 275	11 467	11 610	7 944	8 328	15 339	15 439	13 724	11 465	13 757	14 032	11 186	10 560
Adjusters and investigators	16 235	16 577	13 082	12 982	14 608	14 829	7 206	17 935	19 376	18 865	20 772	19 655	18 405	19 030	8 922	18 220
Data-entry keyers	12 078	12 712	10 093	10 554	9 556	9 556	—	—	14 731	14 939	13 309	14 723	14 117	15 480	10 129	9 989
Other administrative support occupations	12 350	12 948	9 648	9 444	11 104	11 743	4 417	9 862	18 293	18 568	13 312	16 120	15 759	16 221	11 567	11 183
Service occupations	9 423	9 802	8 133	8 165	10 448	10 978	7 190	7 937	14 030	14 388	10 997	13 072	9 437	9 871	7 572	8 832
Private household occupations	4 981	5 147	4 597	5 368	—	—	—	—	12 098	12 134	—	—	—	—	—	—
Protective service occupations	14 530	14 924	12 099	12 981	12 764	13 098	8 077	9 912	12 969	13 308	11 928	11 608	9 803	10 015	9 028	9 479
Guards	9 801	9 962	9 297	8 853	8 929	9 325	6 341	6 594	11 300	11 303	11 669	11 437	9 285	9 476	8 691	9 188
Other protective service occupations	17 413	17 647	15 399	16 497	13 778	14 032	9 271	11 308	25 001	25 457	15 305	21 005	16 976	17 034	24 232	13 525
Service occupations, except protective and household	7 718	7 850	7 276	7 462	8 264	8 590	6 985	7 115	14 803	15 402	10 886	13 329	9 342	9 829	7 355	8 740
Food preparation and service occupations	5 607	5 480	5 590	6 320	9 891	10 465	10 525	6 789	12 275	12 709	10 322	13 149	10 691	10 871	7 445	7 445
Health service occupations	9 177	9 494	8 421	8 700	9 372	9 547	8 905	6 613	19 567	19 567	—	—	15 260	17 092	7 497	7 005
Cleaning and building service occupations, except household	8 943	9 313	7 847	8 223	8 998	8 350	6 435	6 032	15 030	15 030	11 000	13 419	9 086	9 561	7 075	8 746
Personal service occupations	9 424	9 773	7 695	8 834	8 020	8 794	6 136	6 038	18 233	19 750	11 101	11 903	13 602	14 716	9 697	9 933
Farming, forestry, and fishing occupations	10 525	11 063	6 020	7 338	10 728	11 245	5 740	7 275	13 329	13 298	13 009	10 935	8 562	8 911	6 797	8 357
Precision production, craft, and repair occupations	16 029	16 369	12 696	13 042	11 525	11 681	8 550	10 828	19 269	19 578	14 420	15 482	15 130	15 515	10 314	12 370
Mechanics and repairers	15 147	15 353	13 029	13 060	11 560	11 719	7 868	11 019	19 233	19 416	14 982	16 658	15 696	15 923	11 336	13 409
Supervisors, mechanics and repairers	20 293	20 418	17 626	17 786	14 709	14 694	12 148	12 862	25 095	25 153	18 858	20 594	22 301	22 398	12 352	22 836
Automobile mechanics, including body	12 504	12 689	10 632	10 920	11 982	12 211	6 379	11 266	19 328	19 328	11 745	16 163	14 197	14 424	9 976	10 755
Industrial machinery repairers	15 825	16 037	13 666	13 976	11 225	11 183	10 289	12 048	18 506	18 653	15 154	15 427	15 557	15 742	12 745	11 928
Electronic repairers, communications and industrial equipment	13 732	13 842	12 103	12 197	15 321	14 012	—	—	21 610	21 336	18 005	13 723	13 438	13 593	10 470	10 743
Heating, air conditioning, and refrigeration mechanics	14 800	14 949	12 427	12 457	11 614	11 452	—	—	17 500	17 542	14 530	21 605	14 530	14 695	10 542	12 659
Other mechanics and repairers	15 360	15 548	14 405	11 316	11 316	11 542	7 627	10 607	19 193	19 344	15 525	17 563	16 108	16 363	11 710	14 289
Construction trades	15 303	15 498	11 095	12 360	9 740	9 723	9 519	8 007	18 572	19 302	13 389	15 104	15 031	15 427	10 210	12 270
Supervisors, construction occupations	21 542	21 905	14 119	18 127	13 931	14 261	16 237	8 536	25 016	25 365	14 869	16 915	15 604	15 965	13 901	18 264
Carpenters	12 134	12 330	9 592	10 343	8 518	8 397	10 396	7 543	16 593	16 593	13 592	15 835	12 991	12 991	7 417	10 513
Electricians	17 446	17 648	14 777	14 116	14 116	15 038	3 602	8 211	16 283	16 283	17 340	20 300	16 914	17 099	13 471	19 214
Painters, construction and maintenance	10 991	11 862	9 077	9 810	4 496	4 045	9 602	6 311	11 758	11 753	14 442	13 832	10 964	11 957	9 673	10 684
Plumbers, pipefitters, and steamfitters	16 642	17 116	12 592	13 753	9 501	9 355	7 014	10 353	16 412	16 684	14 281	13 432	11 308	16 703	11 264	13 592
Other construction trades	13 643	14 116	10 216	11 601	9 269	9 146	6 479	5 633	14 369	14 607	11 977	11 757	12 843	13 347	9 313	11 284

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Total, all industries				Agriculture, forestry, and fisheries				Mining				Construction, total			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extraction occupations	19 068	19 435	13 927	14 916	12 793	13 027	5 691	12 438	19 221	19 571	14 168	14 989	14 718	15 424	9 582	12 377
Precision production occupations	17 569	17 988	14 150	13 611	13 768	14 212	9 492	13 585	20 036	20 262	16 804	17 421	17 551	17 820	13 369	15 018
Supervisors, production occupations	20 369	20 767	16 510	14 003	14 003	14 085	11 562	14 278	24 035	24 314	17 575	18 053	20 535	20 846	15 553	19 101
Precision metalworking occupations	16 409	16 393	13 579	13 810	11 372	12 260	8 951	8 951	18 322	18 695	13 225	18 465	16 929	17 148	12 589	14 557
Tool and die makers	19 179	19 645	16 070	15 883	7 896	18 205	5 774	8 800	15 858	16 327	12 573	9 940	16 048	16 174	325	—
Machinists	15 486	15 736	13 128	13 559	11 416	12 213	8 800	8 800	18 134	18 551	12 573	39 016	14 311	14 647	11 098	13 430
Sheet metal workers	16 030	16 238	13 353	13 997	10 497	10 321	9 938	9 920	17 565	18 107	—	39 016	16 624	16 801	12 092	14 585
Other precision metal workers	16 294	16 388	13 771	13 298	14 618	16 612	—	9 920	18 896	20 067	22 350	18 896	19 462	19 711	16 456	15 684
Precision textile, apparel, and furnishings machine workers	10 481	10 830	8 626	9 804	9 673	9 673	—	9 920	8 442	7 494	10 628	14 127	13 428	14 150	8 079	11 751
Precision food production occupations	13 454	13 838	10 910	11 585	8 751	9 085	8 218	5 249	15 449	15 326	16 525	18 894	13 287	13 648	9 678	14 495
Precision inspectors, testers, and related workers	16 981	17 232	14 534	15 296	16 466	16 466	—	23 881	16 939	16 895	18 462	16 895	16 017	16 392	14 568	4 919
Plant and system operators	18 214	18 524	15 296	15 988	21 241	22 878	8 592	23 881	18 499	18 600	18 462	16 895	18 224	18 717	14 471	15 361
Other precision production occupations	12 706	13 031	10 483	10 622	13 857	13 857	—	—	13 410	13 270	13 131	16 520	10 242	10 578	7 742	7 590
Operators, fabricators, and laborers	12 792	13 246	10 962	10 477	9 036	9 471	6 953	8 103	16 200	16 508	12 565	14 094	11 895	12 444	9 036	10 106
Machine operators, assemblers, and inspectors	13 486	13 961	11 744	10 764	9 568	9 913	7 734	8 614	17 244	17 556	13 192	15 922	14 938	15 539	10 481	12 663
Machine operators and tenders, except precision	13 319	13 870	11 526	10 603	9 094	9 426	7 862	8 072	15 444	15 749	12 324	15 455	12 839	13 342	9 304	10 999
Metalworking and plastic working machine operators	14 581	14 878	13 238	11 761	9 927	10 068	9 488	9 980	16 787	17 183	14 579	16 333	12 735	13 213	9 194	10 952
Fabricating machine operators, n.e.c.	13 908	14 257	12 035	11 848	12 565	—	—	12 565	14 953	14 312	19 005	27 005	13 019	13 977	6 758	8 631
Metal and plastic processing and woodworking machine operators	12 167	12 487	10 633	10 783	7 613	7 998	4 576	7 135	14 041	14 250	7 309	17 353	11 099	11 560	7 821	9 380
Printing machine operators	14 670	15 012	12 036	11 960	12 482	10 467	20 087	10 467	12 410	14 181	7 878	13 912	12 430	12 707	11 913	10 540
Textile machine operators	10 025	10 455	8 837	8 970	7 497	8 334	6 130	4 415	16 787	17 183	14 579	16 333	12 735	13 213	9 194	10 952
Textile sewing machine operators	8 854	9 686	7 933	7 933	11 435	11 134	14 019	2 410	15 232	16 238	10 305	12 005	10 350	11 330	7 685	7 685
Laundry and dry cleaning machine operators	9 107	9 597	7 795	7 908	—	—	—	—	—	—	—	—	—	—	—	—
Packaging and filling machine operators	12 481	12 938	11 148	10 246	9 409	9 582	7 205	8 884	16 338	16 203	15 746	19 245	13 251	13 655	12 184	5 662
Furnace, kiln, and oven operators, except food	16 454	16 901	14 374	14 872	12 146	12 470	11 810	16 430	17 440	17 729	15 691	15 398	15 219	16 369	10 404	11 435
Other specified machine operators	12 649	13 088	11 125	10 312	8 420	8 877	7 379	5 953	15 583	15 907	12 357	15 179	13 477	12 109	9 045	10 656
Miscellaneous and not specified machine operators	13 381	13 949	11 817	10 519	9 257	9 575	7 715	8 818	—	—	—	—	13 477	14 247	9 484	11 420
Fabricators, assemblers, and hand working occupations	13 343	13 744	11 975	10 925	10 928	11 123	5 898	10 638	18 517	18 748	14 497	16 651	15 908	16 379	11 648	13 645
Welders and cutters	14 677	15 058	12 590	12 602	11 835	11 943	8 145	10 467	18 919	19 083	15 079	17 778	16 455	16 902	12 087	14 375
Solders and brazers	10 356	10 807	8 869	9 778	8 987	—	—	—	15 391	18 547	—	11 184	11 335	13 555	6 005	4 544
Assemblers	12 289	12 652	11 691	10 691	8 987	9 652	5 218	7 666	13 697	14 350	11 916	9 719	11 296	11 776	8 569	9 202
Hand working occupations	11 690	11 958	10 524	9 692	8 523	7 847	1 474	8 510	14 167	14 113	22 005	6 223	12 211	12 568	12 161	9 940
Production inspectors, testers, samplers, and weighers	15 458	15 864	13 299	12 127	10 415	10 981	7 750	5 563	16 683	17 063	13 133	13 638	15 309	15 839	10 668	12 785
Graders and sorters, except agricultural	10 097	10 618	8 336	7 596	8 777	8 728	9 104	7 785	13 421	13 439	19 005	12 467	9 649	10 512	3 957	11 440
Other production inspectors, testers, samplers, and weighers	16 009	16 347	14 079	13 164	10 990	11 783	6 823	5 466	16 893	17 298	12 924	13 772	15 798	16 264	11 539	13 121
Transportation and material moving occupations	14 848	15 376	12 103	12 395	10 621	11 171	7 622	9 586	16 865	17 114	13 267	14 909	14 165	14 547	10 864	12 480
Transportation occupations	14 862	15 405	12 055	12 361	10 627	11 105	7 716	9 880	16 021	16 311	13 011	14 226	12 631	13 034	10 269	11 716
Motor vehicle operators	14 247	14 747	11 786	11 975	10 550	11 006	7 716	9 899	15 798	16 103	12 759	13 949	12 470	12 850	10 280	11 716
Truck drivers	14 815	15 327	11 954	12 373	10 521	10 933	7 837	9 940	15 805	16 111	12 573	14 016	12 477	12 849	10 315	11 747
Driver-sales workers	14 807	15 063	12 293	12 552	12 782	13 252	8 893	12 895	16 047	13 936	22 581	16 726	11 690	11 691	11 488	13 163
Other motor vehicle operators	11 127	11 633	10 268	10 256	8 890	10 371	4 795	8 563	15 386	15 878	15 184	10 883	12 233	13 131	8 737	10 736
Rail and water transportation occupations	21 175	21 619	17 004	17 689	18 279	20 782	7 268	8 974	17 225	17 420	14 633	15 687	17 010	18 197	9 496	11 776
Material moving occupations	14 807	15 290	12 246	12 718	10 603	11 399	7 268	8 974	17 423	17 627	13 539	15 530	15 074	15 381	11 555	12 972
Supervisors, material moving equipment operators	19 792	20 127	16 361	16 137	12 942	12 942	—	—	25 585	25 831	17 005	16 818	20 640	21 042	10 099	15 049
Crane, hoist, and winch operators	17 831	18 222	15 700	16 398	9 892	9 222	5 767	11 149	16 099	16 282	13 564	14 977	18 493	18 749	14 534	15 021
Excavating, grading, and dozer machine operators	14 942	15 207	11 501	12 910	11 575	11 907	7 923	8 856	18 715	18 834	13 559	16 712	14 077	14 324	10 592	12 416
Other material moving equipment operators	13 979	14 496	11 566	11 922	10 372	11 337	7 239	8 010	17 245	17 468	13 504	15 736	14 995	15 333	11 565	12 976
Handlers, equipment cleaners, helpers, and laborers	9 344	9 494	8 862	8 629	6 342	6 491	5 684	6 002	13 710	14 055	11 216	11 600	9 723	10 103	8 198	8 943
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	18 689	19 323	14 549	15 110	11 215	11 831	8 324	6 028	18 605	19 166	14 675	—	15 054	15 964	6 229	385
Helpers, craft and production	9 263	9 366	8 102	8 328	6 294	5 866	4 416	—	13 325	12 014	10 018	11 206	7 402	7 390	7 139	7 696
Construction laborers	10 199	10 691	8 365	9 187	6 476	6 612	5 800	5 907	14 871	15 548	10 008	10 981	10 409	10 515	8 298	9 138
Freight, stock, and material handlers	8 781	8 775	8 863	8 427	6 640	6 599	6 898	6 229	14 997	15 456	10 984	13 190	9 246	9 698	7 665	7 992
Garage and service station occupations, and equipment cleaners	6 536	6 419	7 578	6 440	6 923	7 083	6 404	5 618	14 103	14 781	10 550	12 444	10 934	11 298	9 441	8 474
Hand packers and packagers	9 553	9 775	8 775	9 552	6 140	5 853	6 113	6 140	12 675	12 785	10 234	17 274	10 398	12 067	10 029	8 027
Laborers, except construction	10 401	10 741	9 434	9 230	6 165	6 472	5 101	5 884	13 188	13 523	11 117	11 362	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Total, all industries				Agriculture, forestry, and fisheries				Mining				Construction, total			
	Race				Race				Race				Race			
	Total	White	Black	Spanish origin ¹	Total	White	Black	Spanish origin ¹	Total	White	Black	Spanish origin ¹	Total	White	Black	Spanish origin ¹
Employed females 16 years and over	7 822	7 847	7 731	6 720	4 832	4 896	4 034	4 011	11 153	11 228	10 573	9 799	11 341	8 388	7 514	7 451
Managerial and professional specialty occupations	11 268	11 172	11 796	10 424	9 062	9 071	8 527	7 071	15 513	15 595	14 136	12 708	12 584	12 607	12 224	11 505
Executive, administrative, and managerial occupations	11 863	11 844	12 236	10 937	10 455	10 485	10 174	8 662	15 513	15 595	14 136	12 708	12 584	12 607	12 224	11 505
Officials and administrators, public administration	12 983	12 822	14 113	11 971	13 825	13 825	13 825	8 005	19 548	19 548	14 104	11 819	12 413	12 401	12 242	11 583
Financial managers	13 757	13 786	13 011	12 461	13 825	13 825	13 825	8 005	19 548	19 548	14 104	11 819	12 413	12 401	12 242	11 583
Managers, marketing, advertising, and public relations	12 481	12 546	13 026	10 636	8 742	8 700	8 875	11 641	17 057	16 435	14 546	16 005	17 012	16 155	16 155	13 943
Administrators, education and related fields	13 502	13 203	15 689	12 401	2 505	2 505	2 505	5 209	17 057	16 435	14 546	30 005	17 012	16 155	16 155	13 943
Managers, medicine and health	14 297	14 440	12 937	13 693	12 113	12 561	11 347	5 209	17 057	16 435	14 546	30 005	17 012	16 155	16 155	13 943
Other specified managers	11 662	11 635	12 539	9 787	10 173	10 223	8 639	7 866	17 192	17 337	13 181	10 358	12 716	12 704	13 780	8 864
Managers and administrators, n.e.c.	11 429	11 866	11 004	10 315	10 513	10 514	8 541	9 279	16 756	16 756	13 181	10 358	12 716	12 704	13 780	8 864
Salaries	11 876	11 930	11 268	10 601	10 513	10 514	8 541	9 279	16 756	16 756	13 181	10 358	12 716	12 704	13 780	8 864
Self-employed	7 862	7 773	8 503	7 899	9 296	9 296	38 007	2 902	25 513	25 513	13 181	10 358	12 716	12 704	13 780	8 864
Management related occupations	11 678	11 625	12 084	11 068	10 963	10 971	11 348	11 435	14 222	14 222	14 007	11 771	11 905	11 904	12 335	11 699
Accountants and auditors	11 458	11 386	11 892	10 728	11 282	11 106	14 935	11 150	13 600	13 618	13 321	11 249	11 708	11 668	13 012	11 337
Personnel, training, and labor relations specialists	12 495	12 496	12 638	11 379	11 199	11 460	10 831	10 910	16 087	16 364	15 165	10 462	13 402	12 939	13 402	11 405
Buyers and purchasing agents	11 362	11 380	11 171	10 419	10 724	10 543	13 144	11 656	14 880	14 854	17 277	6 852	11 773	11 938	10 287	11 706
Inspectors and compliance officers	11 635	11 568	11 820	11 801	7 314	8 053	5 211	5 005	18 028	17 868	19 615	24 654	9 912	9 920	13 374	16 420
Other management related occupations	11 548	11 488	12 048	11 386	11 240	11 766	9 053	18 005	16 922	15 938	21 020	24 654	9 912	9 920	13 374	16 420
Professional specialty occupations	10 958	10 813	11 622	10 165	7 962	7 959	6 980	5 677	15 730	15 799	14 228	14 510	11 772	11 616	12 152	11 108
Engineers, architects, and surveyors	14 633	14 633	14 056	14 669	8 013	7 891	7 283	8 359	14 570	14 444	11 194	16 415	14 077	13 876	13 964	15 191
Architects	11 787	11 704	11 911	12 173	8 095	7 952	7 283	8 359	14 570	14 444	11 194	16 415	14 077	13 876	13 964	15 191
Engineers	15 121	15 164	14 216	15 282	8 386	8 455	8 455	8 374	14 980	14 883	11 194	16 415	14 077	13 876	13 964	15 191
Civil engineers	13 962	14 013	11 690	13 269	7 581	7 568	7 581	8 374	14 980	14 883	11 194	16 415	14 077	13 876	13 964	15 191
Electrical and electronic engineers	16 933	17 089	15 451	17 354	43 005	43 005	43 005	43 005	21 205	21 205	17 299	19 090	14 482	14 101	14 502	16 085
Industrial engineers	13 249	13 260	13 548	11 594	5 781	5 781	5 781	5 781	21 205	21 205	17 299	19 090	14 482	14 101	14 502	16 085
Mechanical engineers	16 035	16 182	14 105	16 967	7 661	7 661	7 661	7 661	21 205	21 205	17 299	19 090	14 482	14 101	14 502	16 085
Other engineers	15 614	15 673	14 060	17 336	7 661	7 661	7 661	7 661	21 205	21 205	17 299	19 090	14 482	14 101	14 502	16 085
Surveyors and mapping scientists	8 808	8 694	12 075	6 155	7 962	7 959	6 980	5 677	15 730	15 799	14 228	14 510	11 772	11 616	12 152	11 108
Computer systems analysts and scientists	17 051	17 108	16 689	14 977	13 686	13 686	13 686	13 686	19 909	19 553	18 005	18 575	15 781	15 678	6 035	8 005
Operations and systems researchers and analysts	16 379	16 531	15 587	11 801	10 422	10 422	10 422	10 422	19 909	19 553	18 005	18 575	15 781	15 678	6 035	8 005
Mathematical scientists	14 214	14 019	16 080	11 879	10 143	10 143	10 143	10 143	19 909	19 553	18 005	18 575	15 781	15 678	6 035	8 005
Natural scientists	13 255	13 043	14 838	12 925	7 521	7 436	5 868	6 195	15 011	15 036	15 238	15 908	11 093	11 370	10 640	8 005
Chemists, except biochemists	14 558	14 443	14 838	12 925	7 521	7 436	5 868	6 195	15 011	15 036	15 238	15 908	11 093	11 370	10 640	8 005
Other natural scientists	12 611	12 420	12 670	12 182	7 482	7 391	5 868	6 195	15 011	15 036	15 238	15 908	11 093	11 370	10 640	8 005
Health diagnosing occupations	23 323	21 777	20 249	26 287	11 295	11 303	9 506	6 094	20 005	20 005	20 005	20 005	3 279	7 214	9 271	8 005
Health assessment and treating occupations	11 320	11 157	11 821	11 535	7 150	7 292	5 992	7 790	15 848	15 752	24 005	12 605	11 943	12 264	9 271	8 005
Registered nurses	11 520	11 311	12 491	12 166	7 154	7 599	445	7 790	15 848	15 752	24 005	12 605	11 943	12 264	9 271	8 005
Other health assessment and treating occupations	10 327	10 364	9 449	9 496	7 137	6 167	15 005	7 790	15 848	15 752	24 005	12 605	11 943	12 264	9 271	8 005
Teachers, except postsecondary	10 451	10 336	11 451	9 156	8 365	8 418	8 839	8 839	22 805	22 805	22 805	22 805	12 476	12 706	11 243	11 108
Social scientists and urban planners	13 845	13 884	13 255	12 554	12 085	12 342	12 342	12 342	5 705	5 705	21 005	18 575	6 633	5 589	11 365	7 461
Social and recreation workers	10 447	10 469	10 577	9 273	6 077	6 077	6 077	6 077	16 676	16 676	16 676	16 676	12 501	11 969	21 353	9 885
Lower and judges	15 989	16 060	15 948	14 211	12 886	12 886	12 886	12 886	23 505	23 505	23 505	23 505	18 076	18 076	8 975	9 885
Writers, artists, entertainers, and athletes	8 819	8 781	9 854	8 640	5 861	5 861	4 334	4 542	34 569	35 165	25 816	10 544	18 076	18 076	8 975	9 885
Other professional specialty occupations	10 465	10 380	11 765	8 928	9 743	9 199	20 005	4 542	13 560	13 938	10 818	10 544	12 110	11 611	13 914	9 193
Technical, sales, and administrative support occupations	7 659	7 611	8 151	7 101	6 230	6 204	6 406	5 901	10 033	10 083	9 374	9 491	7 908	7 890	8 215	7 461
Technicians and related support occupations	9 524	9 420	9 845	9 218	7 124	7 108	9 183	5 651	11 267	11 838	10 486	12 309	9 928	9 794	11 033	9 271
Health technologists and technicians	8 952	8 780	9 446	8 862	6 670	6 656	9 508	4 073	15 588	13 936	7 805	12 309	9 802	9 876	8 975	9 271
Licensed practical nurses	8 025	7 724	9 198	8 030	6 439	6 439	6 439	6 439	13 471	13 153	8 843	10 544	8 843	8 932	6 035	9 885
Other health technologists and technicians	9 908	9 789	9 903	9 778	6 701	6 688	9 508	4 073	13 471	13 153	8 843	10 544	8 843	8 932	6 035	9 885
Engineering and science technicians	9 826	9 791	10 365	9 328	7 148	7 248	6 076	6 004	10 346	10 621	8 964	11 145	11 691	12 077	9 955	9 885
Electrical and electronic technicians	10 978	11 061	10 897	10 088	11 437	11 396	11 396	6 004	10 346	10 621	8 964	11 145	11 691	12 077	9 955	9 885
Industrial and mechanical engineering technicians	11 308	11 267	11 714	10 970	10 086	10 086	10 086	5 830	9 907	10 154	9 099	11 145	11 691	12 077	9 955	9 885
Drafting and surveying technicians	9 607	9 571	10 434	8 798	6 613	6 798	7 858	5 830	10 210	10 245	9 335	9 988	8 930	8 794	5 365	8 438
Other engineering and science technicians	9 604	9 564	10 149	8 968	6 517	6 591	5 788	6 129	10 925	11 036	8 799	12 301	10 397	10 421	10 066	10 260
Technicians, except health, engineering, and science	10 920	10 872	11 331	10 136	8 933	8 616	18 623	5 205	13 860	14 021	12 565	15 105	11 274	10 835	14 435	10 455
Airplane pilots and navigators	16 506	15 658	9 767	22 532	14 567	14 567	14 567	14 567	25 005	25 005	25 005	25 005	25 005	25 005	25 005	10 455
Air traffic controllers and broadcast equipment operators	8 948	8 942	9 289	8 487	8 007	8 048	8 007	8 007	12 669	12 669	12 669	12 669	12 669	12 669	12 669	10 455
Computer programmers	13 143	13 128	13 376	11 978	10 582	9 404	18 623	10 005	12 023	15 065	12 918	13 005	11 937	11 684	14 065	10 825
Other technicians, except health, engineering, and science	9 930	9 875	10 638	9 385	8 377	8 255	8 377	4 005	13 106	13 238	11 945	15 717	11 213	10 555	15 930	10 068

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Total, all industries				Agriculture, forestry, and fisheries				Mining				Construction, total			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con																
Sales occupations—	5 996	6 023	5 663	5 388	4 574	4 574	4 247	4 033	11 966	11 534	16 759	12 091	7 946	8 127	6 200	5 442
Supervisors and proprietors, sales occupations—	8 622	8 603	8 787	8 388	7 868	8 025	7 298	15 005	19 457	19 457	—	—	8 983	9 230	4 387	—
Salaried—	9 305	9 314	9 137	8 904	8 759	9 193	298	15 005	20 593	20 593	—	—	9 491	9 670	4 387	—
Self-employed—	6 949	6 864	7 457	7 074	6 627	6 627	—	—	5 255	5 255	—	—	7 018	7 505	—	—
Sales representatives, finance and business services—	10 719	10 740	10 084	9 944	6 051	6 062	5 845	1 383	10 170	10 170	—	—	10 279	10 380	10 429	5 504
Sales representatives, commodities, except retail—	9 744	9 811	9 142	9 717	4 284	4 279	5 339	4 562	14 294	12 919	21 687	—	16 503	16 503	—	6 405
Sales workers, retail and personal services—	4 598	4 571	4 862	4 520	3 636	3 636	3 676	3 547	9 917	10 106	6 904	12 091	4 190	4 192	4 397	5 251
Cashiers—	4 757	4 747	4 828	4 588	4 113	4 113	4 490	3 641	8 604	8 586	6 904	12 091	6 059	6 088	6 122	6 691
Other sales occupations, retail and personal services—	4 484	4 452	4 907	4 455	2 040	2 040	2 022	2 505	13 554	13 554	—	—	3 431	3 457	3 359	3 945
Sales related occupations—	4 747	4 725	5 042	5 026	1 667	1 710	—	—	—	—	—	—	3 413	3 413	—	—
Administrative support occupations, including clerical—	8 070	8 031	8 519	7 524	6 275	6 242	6 423	6 083	9 872	9 940	9 179	—	7 845	7 828	8 135	7 449
Supervisors, administrative support occupations—	12 447	12 410	12 872	11 507	9 625	9 720	9 164	7 441	15 295	15 339	14 098	—	11 878	11 955	10 008	9 494
Computer equipment operators—	9 269	9 203	9 830	8 582	8 419	7 954	15 030	10 439	10 115	10 528	7 497	—	9 873	9 935	8 883	9 113
Secretaries, stenographers, and typists—	8 142	8 146	8 161	7 689	6 681	6 766	6 311	5 921	9 884	9 937	9 149	10 183	7 808	7 814	7 421	7 338
Stenographers and typists—	8 346	8 330	8 608	7 967	6 780	6 766	6 217	5 520	10 036	10 036	9 467	10 183	7 886	7 886	7 591	7 338
Receptionists—	7 112	7 086	7 299	6 698	5 902	5 939	6 217	5 520	8 034	8 261	7 688	6 831	6 831	6 884	6 079	6 400
Other information clerks—	5 820	5 795	6 298	5 545	4 857	4 847	4 100	3 676	7 952	7 952	7 655	8 967	5 701	5 680	6 079	4 661
File clerks—	7 220	7 118	7 890	7 182	4 017	4 099	2 801	2 305	7 952	7 952	12 741	8 967	4 268	4 222	5 698	3 875
Other records processing occupations, except financial—	5 664	5 667	5 725	5 137	5 478	5 193	6 667	4 489	6 825	6 825	6 998	7 159	5 663	5 659	6 307	5 135
Bookkeepers, accounting, and auditing clerks—	7 806	7 746	8 387	7 550	7 445	7 745	5 380	6 855	12 003	12 003	12 871	10 354	8 359	8 177	10 126	10 542
Peyroll and timekeeping clerks—	8 014	7 966	8 711	8 140	6 147	6 089	8 706	7 267	9 540	9 488	10 226	8 575	7 883	7 855	8 599	7 992
Other financial records processing occupations—	9 488	9 444	10 074	8 923	7 420	7 522	6 524	6 776	10 668	10 616	12 907	9 047	8 488	8 452	9 866	8 745
Telephone operators—	8 156	8 140	8 311	7 598	6 683	6 117	13 434	1 205	9 850	9 850	9 525	12 071	8 424	8 375	8 229	7 829
Mail and message distributing occupations—	8 299	8 879	7 751	6 139	6 139	5 351	10 269	4 805	8 773	8 904	8 910	7 892	6 564	6 565	5 770	1 028
Production coordinators and expeditors—	10 114	9 330	12 725	9 212	5 046	5 171	3 502	5 004	5 458	5 203	5 692	10 084	6 450	6 212	8 144	4 911
Traffic, shipping, and receiving clerks—	9 469	9 467	9 709	8 530	5 252	5 317	3 584	6 548	11 668	11 636	12 094	10 084	9 958	10 033	9 419	15 228
Stock and inventory clerks—	8 096	8 134	8 983	7 265	5 107	5 077	5 522	5 422	9 993	10 485	9 986	8 249	7 523	8 070	4 134	9 305
Other material recording, scheduling, and distributing clerks—	8 171	8 132	8 513	7 598	7 390	7 217	5 855	5 761	10 040	10 214	9 363	9 126	7 901	7 886	8 990	6 988
Adjusters and investigators—	7 895	7 901	8 076	7 156	4 672	4 714	5 036	3 655	8 908	8 978	10 592	8 498	8 498	8 522	10 221	7 172
Date-entry keyers—	9 694	9 622	10 175	9 156	9 374	9 357	5 714	6 672	12 446	12 930	10 592	6 058	9 767	9 727	10 543	6 529
Other administrative support occupations—	8 266	8 188	8 510	8 223	6 880	7 199	3 543	6 672	9 722	9 832	9 538	9 698	8 650	8 719	7 955	8 830
Service occupations—	7 144	7 095	7 595	6 557	5 920	5 879	6 461	4 773	9 865	10 069	7 901	9 090	7 182	7 014	10 116	6 969
Private household occupations—	4 631	4 484	5 165	4 582	3 639	3 606	3 680	3 804	7 257	7 350	7 394	4 917	4 561	4 402	4 850	4 828
Protective service occupations—	2 674	2 364	2 983	3 357	—	5 437	891	—	7 988	7 753	11 005	—	—	—	—	—
Guards—	6 880	6 654	7 877	6 490	5 232	5 329	—	2 354	7 988	7 753	11 005	3 005	5 270	5 214	5 183	3 859
Other protective service occupations—	5 027	4 803	6 004	4 552	3 691	3 691	—	4 922	9 272	9 272	—	—	6 717	6 717	5 004	3 859
Food preparation and service occupation—	11 153	11 067	11 652	10 816	5 542	5 542	891	3 791	7 172	7 298	7 303	4 953	4 513	4 344	4 827	4 842
Health service occupations—	4 739	4 548	5 552	4 712	3 395	3 262	3 726	3 726	8 165	8 411	10 283	1 967	4 719	5 251	4 012	893
Cleaning and building service occupations, except household—	3 852	3 737	4 618	3 912	3 740	3 660	3 413	3 189	10 853	10 853	9 005	10 805	7 715	6 630	9 727	8 914
Personal service occupations—	6 019	5 781	6 735	5 845	3 801	3 484	2 776	3 773	7 009	7 072	7 221	5 007	4 375	4 182	4 696	5 015
Other service occupations—	4 932	4 716	5 318	4 815	3 196	2 998	3 641	1 980	5 232	2 774	6 548	4 005	4 683	4 298	4 694	4 694
Farming, forestry, and fishing occupations—	5 071	5 039	5 152	4 825	3 352	3 301	3 763	—	—	—	—	—	—	—	—	—
Precision production, craft, and repair occupations—	4 253	4 275	3 851	3 831	4 213	4 241	3 663	3 777	6 836	6 836	—	—	6 462	6 363	7 205	7 793
Mechanics and repairers—	8 773	8 868	8 735	7 618	5 439	5 594	4 780	3 583	13 578	13 253	17 461	11 480	8 478	8 624	6 979	7 798
Supervisors, mechanics and repairers—	10 915	10 929	10 890	10 216	5 350	5 804	5 134	2 003	14 624	15 350	10 133	—	9 909	10 066	8 023	9 414
Automobile mechanics, including body—	12 457	12 409	11 762	14 859	6 650	6 650	—	—	9 272	9 272	—	—	12 554	12 819	7 385	—
Industrial machinery repairers—	8 734	8 707	8 728	8 366	3 947	3 947	—	6 005	14 905	15 618	11 148	—	8 178	8 786	7 879	2 830
Electronic repairers, communications and industrial equipment—	10 138	10 202	9 486	10 978	3 099	4 244	1 038	—	12 706	13 085	7 805	7 969	11 867	12 073	8 005	12 029
Heating, air conditioning, and refrigeration mechanics—	9 031	9 970	9 217	7 781	7 851	7 805	—	—	11 218	11 218	—	—	8 962	9 741	6 339	—
Other mechanics and repairers—	9 841	9 787	9 787	8 559	7 005	7 005	—	—	6 865	6 865	9 605	—	8 540	8 669	4 371	11 989
Construction trades—	8 251	8 309	7 908	7 653	4 526	4 787	2 438	3 784	16 395	17 377	10 009	16 390	8 962	10 220	8 839	9 956
Supervisors, construction occupations—	12 622	12 951	9 804	10 916	14 338	14 338	—	—	11 560	11 913	8 022	14 356	8 416	8 565	6 924	7 979
Carpenters—	6 869	6 966	6 358	7 520	3 481	3 413	—	4 543	12 533	12 533	—	—	13 362	13 669	9 877	11 432
Electricians—	10 718	10 847	10 592	9 303	10 255	10 255	—	—	13 203	13 362	12 405	12 255	7 239	7 352	6 499	7 350
Painters, construction and maintenance—	5 615	5 590	6 049	4 539	3 023	2 955	3 116	3 252	15 729	16 428	12 405	14 005	10 379	10 342	7 849	10 362
Plumbers, pipefitters, and steamfitters—	9 596	9 797	8 592	8 154	2 197	2 197	—	—	8 794	10 498	14 498	—	5 383	5 518	4 199	3 739
Other construction trades—	7 544	7 344	7 940	8 880	4 821	6 004	—	2 068	12 234	11 775	18 205	19 076	10 291	10 585	8 089	8 711
									7 665	8 104	3 441	11 992	7 326	7 166	6 726	7 712

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Cont.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Total, all industries				Agriculture, forestry, and fisheries				Mining				Construction, total			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over—Con																
Precision production, craft and repair occupations—Con																
Extraction occupations	12 185	12 680	9 574	9 961	6 431	6 968	5 071	2 938	12 751	13 200	10 184	11 500	7 305	7 305	7 305	—
Precision production occupations	8 448	8 552	8 401	7 333	5 781	5 836	8 099	4 299	9 299	12 617	84 424	10 040	8 838	8 838	7 116	6 516
Supervisors, production occupations	10 994	11 110	10 651	9 039	8 190	8 110	8 829	7 563	15 444	15 532	14 786	12 376	12 643	12 402	13 270	9 659
Precision metalworking occupations	8 660	8 687	9 066	7 708	1 304	2 035	—	—	8 533	8 936	7 205	7 005	7 734	8 275	4 797	5 725
Tool and die makers	11 636	11 431	11 431	7 441	4 005	4 005	—	—	—	—	—	—	15 697	15 697	—	—
Machinists	8 823	8 899	8 835	7 374	735	1 765	—	—	10 284	10 676	7 672	7 005	4 478	5 216	1 162	—
Sheet metal workers	10 456	10 519	10 257	10 476	—	—	—	—	—	—	—	—	7 976	8 420	4 313	—
Other precision metal workers	7 857	7 826	7 788	7 757	2 656	2 656	—	—	6 520	6 258	7 005	—	8 349	8 872	7 564	5 725
Precision textile, apparel, and furnishings machine workers	5 411	5 369	5 730	5 441	5 604	5 224	6 426	—	4 993	5 083	—	6 133	4 630	4 684	—	4 738
Precision food production occupations	6 100	6 081	6 046	6 168	4 522	4 167	4 883	2 714	5 185	5 185	—	—	6 283	5 253	—	—
Precision inspectors, testers, and related workers	9 571	9 676	9 764	7 608	—	—	—	—	5 205	5 205	—	—	9 691	10 048	3 005	10 155
Plant and system operators	11 852	11 321	14 530	13 329	7 516	9 081	3 605	—	24 414	12 109	206 662	20 005	9 459	9 723	1 435	3 664
Other precision production occupations	7 731	7 768	7 921	7 111	4 933	5 465	1 915	—	11 103	10 711	13 005	—	4 847	5 030	2 981	13 005
Operators, fabricators, and laborers																
Machine operators, assemblers, and inspectors	7 109	7 168	7 290	6 036	4 293	4 281	4 127	4 280	10 799	11 082	8 994	10 136	6 420	6 478	6 128	5 769
Machine operators and tenders, except precision	7 317	7 420	7 391	6 072	4 986	5 065	4 926	4 713	9 786	10 312	7 611	8 453	7 608	7 832	6 614	6 614
Metalworking and plastic working machine operators	8 992	9 024	9 292	7 564	3 175	1 920	4 960	4 382	13 000	13 000	8 548	6 494	7 446	7 810	6 343	5 187
Fabricating machine operators, n e c	8 076	8 128	8 246	5 991	3 911	3 911	—	—	10 375	—	—	—	7 645	8 751	2 301	7 715
Metal and plastic processing and woodworking machine operators	7 575	7 619	7 431	7 088	2 990	3 262	2 720	—	—	—	—	—	4 233	4 233	—	3 650
Printing machine operators	7 577	7 512	7 344	6 942	9 555	10 276	2 705	9 885	10 648	14 161	515	—	6 954	7 040	3 652	3 584
Textile machine operators	7 436	7 546	7 289	5 088	5 301	11 375	4 536	—	8 454	9 720	10 312	—	8 332	8 460	6 828	285
Textile sewing machine operators	5 750	5 841	5 745	5 028	5 373	6 441	2 002	—	5 235	5 141	5 468	2 694	6 318	7 031	5 327	4 914
Laundry and dry cleaning machine operators	5 218	5 000	5 755	5 197	3 781	1 959	5 265	2 745	5 095	5 095	—	—	—	—	—	—
Packaging and filling machine operators	7 571	7 649	7 773	6 076	5 275	5 406	6 459	3 729	13 275	13 275	—	—	3 514	3 184	4 505	—
Furnace, kiln, and oven operators, except food	10 859	11 066	10 256	7 520	6 310	5 227	5 471	11 005	11 080	11 418	8 942	11 787	6 905	5 380	13 005	—
Other specified machine operators	6 536	6 693	6 159	5 676	4 466	4 143	5 471	5 138	—	—	—	—	5 773	5 951	4 592	3 959
Miscellaneous and not specified machine operators	7 949	8 064	7 986	6 394	5 108	5 347	4 625	4 405	—	—	—	—	8 476	9 079	7 127	5 930
Fabricators, assemblers, and hand working occupations																
Welders and cutters	7 911	8 434	8 434	6 670	4 412	4 491	3 830	4 302	11 167	11 870	8 017	9 880	7 600	7 625	7 019	7 479
Solderers and brazers	9 015	9 020	9 227	7 319	14 854	17 462	5 725	—	13 875	14 494	8 672	23 005	9 173	9 057	7 982	9 307
Assemblers	7 388	7 406	7 735	6 768	5 853	9 355	4 685	—	10 305	10 305	7 563	8 005	5 630	6 835	175	8 234
Hand working occupations	7 955	7 980	8 473	6 706	4 272	4 178	4 299	4 316	9 244	9 965	—	—	6 456	6 434	6 723	6 404
Production inspectors, testers, samplers, and weighers	6 040	6 055	6 470	5 185	4 430	5 108	2 567	4 252	6 540	6 540	—	—	7 246	7 000	5 853	—
Graders and sorters, except agricultural	8 503	8 590	8 604	6 854	5 633	5 393	6 703	5 880	8 932	9 143	3 261	16 589	8 714	9 199	7 528	10 184
Other production inspectors, testers, samplers, and weighers	5 611	5 663	5 979	4 453	2 974	2 785	3 967	—	9 035	9 035	—	—	6 254	1 950	7 809	—
Transportation and material moving occupations																
Transportation occupations	6 924	8 973	9 009	7 736	6 269	6 125	7 137	5 880	8 905	9 185	3 261	16 589	9 038	9 495	7 191	10 184
Motor vehicle operators	6 385	6 238	7 325	6 279	5 356	5 133	5 037	6 121	12 390	12 201	15 312	13 210	7 972	8 103	6 720	7 550
Truck drivers	5 793	5 637	6 829	5 844	5 096	4 900	4 709	5 916	11 430	11 078	16 107	15 826	7 225	7 319	6 886	6 097
Other motor vehicle operators	5 675	5 518	6 732	5 715	4 933	4 810	2 095	5 916	12 604	12 356	15 755	15 138	7 168	7 231	6 966	6 382
Driver-sales workers	7 282	7 277	7 501	6 501	4 933	4 810	2 095	5 916	12 604	12 356	15 755	15 138	7 351	7 459	6 966	6 375
Rail and water transportation occupations	6 396	6 310	7 307	6 152	7 103	7 103	—	—	2 505	2 505	—	—	4 132	4 132	—	7 775
Material moving equipment operators	5 031	4 803	5 067	5 241	7 056	5 797	9 409	—	7 237	6 518	17 005	11 005	4 805	4 490	7 383	4 005
Supervisors, material moving equipment operators	12 329	12 446	12 082	11 644	4 209	4 134	4 405	6 344	9 010	8 519	18 505	17 957	9 055	10 266	4 005	9 005
Crane, hoist, and winch operators	9 195	9 205	9 246	7 056	6 114	6 063	5 308	—	13 287	13 313	14 848	11 730	8 770	8 982	6 545	8 747
Excavating, grading, and dozer machine operators	11 727	11 746	13 733	11 805	—	—	—	—	6 005	6 005	—	—	10 506	10 506	—	—
Other material moving equipment operators	13 436	13 302	13 190	14 689	3 287	3 287	3 604	—	16 833	17 051	8 505	6 005	14 101	13 350	20 838	—
Handlers, equipment cleaners, helpers, and laborers	7 383	7 337	6 664	9 088	4 044	7 172	7 332	—	14 427	14 464	13 576	12 755	6 576	6 293	5 024	9 680
Supervisors, handlers, equipment cleaners, and laborers, n e c	8 900	9 006	8 987	6 775	6 772	6 260	7 732	6 344	12 598	12 533	15 226	11 074	9 246	9 980	6 147	8 470
Helpers, craft and production	6 533	6 536	6 851	5 829	3 816	3 776	3 591	4 029	9 836	10 285	7 696	9 119	5 595	5 546	5 832	5 066
Construction laborers	10 775	11 096	9 834	13 564	—	—	—	—	9 982	10 212	8 725	—	8 933	6 714	14 005	—
Freight, stock, and material handlers	6 732	6 538	7 973	6 052	5 811	6 672	4 132	6 795	7 658	10 027	2 818	10 050	5 070	4 732	6 014	3 620
Garage and service station occupations, and equipment cleaners	5 803	5 806	5 820	5 566	4 464	3 945	5 621	3 524	11 914	11 765	6 514	5 005	5 645	5 638	5 798	5 223
Hand packers and packagers	5 873	5 736	7 041	5 440	4 233	4 357	4 302	3 799	10 945	11 845	—	—	5 928	6 251	3 475	2 651
Laborers, except construction	5 019	4 810	6 305	4 999	4 089	3 479	4 851	—	11 845	11 845	—	—	4 887	4 627	5 715	5 005
	7 112	7 209	7 235	5 949	4 084	4 095	3 688	4 376	10 520	10 520	—	—	7 586	7 873	6 864	6 905
	6 479	6 584	6 382	5 837	3 287	3 193	3 384	3 308	9 463	9 943	7 848	7 491	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Construction, government workers				Construction, self-employed workers				Manufacturing, total				Food and kindred products			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over																
Managerial and professional specialty occupations	13 133	13 633	9 267	11 477	15 295	15 492	10 852	14 576	17 591	18 347	12 560	12 210	15 857	16 797	11 230	11 794
Executive, administrative, and managerial occupations	18 996	19 125	14 807	17 657	21 260	21 507	14 623	21 605	27 980	28 357	19 561	21 317	27 806	28 262	18 526	20 539
Officials and administrators, public administration	16 893	17 024	14 188	17 055	21 219	21 485	14 594	21 999	30 821	31 219	20 125	22 331	28 490	28 961	18 595	20 481
Financial managers	16 312	16 388	14 531	16 531	60 005	60 005	—	—	21 498	22 138	—	12 005	12 005	12 005	—	12 005
Managers, marketing, advertising, and public relations	26 664	26 271	31 250	29 055	40 610	46 274	10 005	3 205	30 551	30 738	21 572	24 873	27 945	28 125	23 207	23 288
Administrators, education and related fields	19 188	19 188	—	—	30 553	30 278	46 005	—	31 660	31 847	23 024	25 278	28 390	28 468	22 963	22 898
Managers, medicine and health	21 126	20 683	24 005	—	14 343	16 574	—	—	32 903	33 635	7 332	28 476	27 201	27 884	11 505	—
Other specified managers	19 922	19 996	—	—	20 435	20 077	10 785	18 596	27 622	27 885	23 943	—	—	—	—	—
Managers and administrators, n.e.c.	19 041	19 552	13 215	23 225	21 008	21 274	14 598	22 137	33 550	33 979	20 378	23 436	30 722	31 758	17 538	19 233
Salaried	19 041	19 552	13 215	23 225	21 008	21 274	14 598	22 137	33 550	33 979	20 378	23 436	30 722	31 758	17 538	19 233
Self-employed	—	—	—	—	21 008	21 274	—	—	22 137	23 128	16 449	21 324	22 389	22 566	6 231	16 672
Management related occupations	15 763	15 795	13 874	13 767	27 478	28 235	6 893	23 316	22 291	22 565	18 241	17 704	21 136	21 482	15 982	17 007
Executive and auditors	18 699	18 698	18 818	14 155	17 406	17 406	—	17 505	21 756	22 032	17 998	18 188	20 232	20 525	17 172	17 950
Personal, training, and labor relations specialists	17 531	17 980	14 326	11 847	42 203	44 088	10 005	18 564	23 537	24 021	19 503	17 084	20 925	21 405	18 959	16 307
Buyers and purchasing agents	15 227	15 454	9 822	11 305	11 617	12 181	4 913	—	20 194	20 341	15 924	15 745	21 030	21 304	10 495	16 521
Inspectors and compliance officers	15 266	15 268	18 053	14 026	18 053	18 318	—	55 005	20 235	20 695	16 107	18 259	21 075	17 748	12 631	18 679
Other management related occupations	19 677	19 689	9 885	17 505	29 306	29 306	—	—	28 907	29 200	20 366	24 407	29 306	29 949	10 137	19 734
Professional specialty occupations	21 175	21 304	16 050	18 281	21 912	21 860	15 485	15 038	23 833	24 053	18 854	19 809	23 915	24 205	18 156	20 931
Engineers, architects, and surveyors	21 557	21 668	16 598	18 232	25 999	26 001	9 058	18 258	24 748	24 704	20 046	21 431	23 604	23 706	17 795	21 395
Architects	23 470	23 373	22 960	15 255	25 007	24 190	—	25 732	22 353	23 212	13 182	17 574	20 755	21 211	14 005	—
Engineers	21 887	22 004	16 789	18 450	26 470	26 673	9 058	6 910	24 597	24 776	20 103	21 467	23 628	23 721	17 886	21 395
Civil engineers	21 881	21 968	17 257	18 090	26 813	27 040	22 485	5 070	25 076	25 310	16 090	21 319	18 185	18 362	12 751	17 005
Electrical and electronic engineers	23 256	23 752	12 620	22 001	32 240	32 244	—	15 005	24 624	24 838	20 893	20 992	25 419	25 358	27 571	17 005
Industrial engineers	19 827	19 932	—	—	32 244	32 244	—	—	22 051	22 175	19 513	19 876	21 826	21 842	19 539	20 709
Mechanical engineers	23 216	23 958	9 177	33 960	29 476	26 244	—	—	25 034	25 192	20 756	22 170	23 162	23 044	16 143	21 090
Other engineers	21 292	21 609	15 148	20 914	25 569	27 778	4 583	—	25 783	26 030	19 746	22 385	25 761	25 799	20 367	22 686
Surveyors and mapping scientists	14 217	14 084	13 157	17 025	20 421	20 421	—	—	16 950	17 582	15 145	11 585	21 885	21 870	26 803	—
Computer systems analysts and scientists	22 149	22 010	26 005	22 005	40 005	40 005	40 005	—	24 093	24 305	20 663	21 669	22 313	22 223	21 943	27 693
Operations and systems researchers and analysts	20 885	21 238	15 505	—	18 149	18 149	—	—	24 069	24 197	22 559	20 703	22 849	22 389	30 005	34 005
Mathematical scientists	15 429	15 555	—	28 005	2 045	2 045	—	—	24 994	25 358	22 349	18 965	28 353	28 943	—	13 005
Natural scientists	18 282	18 391	16 787	8 227	20 080	20 080	—	—	23 157	23 534	17 582	19 139	20 494	20 804	17 500	18 631
Chemists, except biochemists	21 120	21 191	28 805	8 005	—	—	—	—	22 844	23 243	17 978	19 519	21 257	21 554	19 687	20 923
Other natural scientists	17 981	18 113	14 684	8 313	20 080	20 080	—	—	24 067	24 335	14 973	17 468	19 193	19 591	12 531	15 140
Health diagnosing occupations	32 036	32 036	—	—	16 005	16 005	—	—	44 623	45 267	23 878	47 917	31 119	33 139	8 779	11 020
Health assessment and freeing occupations	10 398	14 929	3 925	—	—	—	—	—	21 338	22 046	14 331	18 926	23 992	24 381	12 369	—
Registered nurses	21 625	21 625	—	—	—	—	—	—	19 996	20 363	20 457	19 138	5 972	4 764	11 005	—
Other health assessment and freeing occupations	8 901	13 255	3 925	—	16 005	16 005	—	—	22 051	23 000	9 646	18 792	25 830	26 266	14 005	15 027
Teachers, except postsecondary	10 483	9 958	13 005	—	7 874	7 874	—	—	20 276	20 806	14 332	14 702	20 912	21 490	—	—
Social scientists and urban planners	18 712	18 154	23 655	22 901	10 735	10 735	—	—	29 818	30 087	23 189	19 599	31 220	32 213	19 353	8 556
Social and recreation workers	10 330	9 493	11 805	—	12 903	12 903	—	—	19 679	20 699	9 705	18 005	12 866	16 252	1 785	—
Lawyers and judges	28 170	28 170	—	37 605	41 572	41 572	—	—	46 413	46 738	36 913	36 265	48 163	49 001	34 686	66 255
Writers, artists, entertainers, and athletes	17 038	17 494	10 444	17 587	14 913	14 983	16 505	10 826	19 106	19 337	14 942	14 952	22 084	22 307	16 050	17 349
Other professional specialty occupations	16 372	15 995	21 509	17 505	10 618	10 618	—	—	19 681	20 495	11 528	7 641	19 367	20 665	6 003	7 005
Technical, sales, and administrative support occupations	14 079	14 284	10 889	13 365	19 309	19 477	8 432	18 907	17 725	18 222	12 841	12 754	16 277	16 788	12 540	13 371
Technicians and related support occupations	14 359	14 980	10 314	14 731	18 128	18 035	10 855	26 109	17 628	17 869	14 936	14 967	17 237	17 353	16 468	14 432
Health technologists and technicians	16 753	16 753	—	14 815	—	—	—	—	19 966	20 406	15 102	16 769	13 572	17 570	7 077	8 610
Licensed practical nurses	16 005	16 005	—	—	—	—	—	—	18 669	18 575	20 285	18 945	10 755	10 755	—	—
Other health technologists and technicians	16 836	16 836	—	14 815	—	—	—	—	20 028	20 493	15 004	16 625	13 660	17 948	7 077	8 610
Engineering and science technicians	14 268	14 477	10 327	12 587	18 630	18 533	10 855	28 439	16 925	17 169	14 515	14 511	16 752	16 844	16 767	14 171
Electrical and electronic technicians	18 740	19 315	11 833	14 873	10 343	10 343	—	10 800	15 946	16 192	13 744	14 466	22 701	23 117	17 824	9 227
Industrial and mechanical engineering technicians	19 196	19 762	10 005	10 005	6 673	6 673	—	—	20 217	20 441	16 036	16 150	17 315	17 658	—	10 956
Drafting and surveying technicians	13 168	13 319	9 968	13 613	18 587	18 102	20 010	33 053	16 142	16 383	13 126	13 607	15 367	15 606	9 362	12 538
Other engineering and science technicians	15 346	15 618	10 699	16 099	19 447	19 504	7 526	27 184	18 005	18 243	15 527	15 205	16 536	16 541	17 035	14 569
Technicians, except health, engineering, and science	15 178	15 537	10 199	16 441	11 149	11 140	—	10 005	19 716	19 946	16 414	16 730	19 168	19 077	18 144	18 638
Airplane pilots and navigators	11 251	11 306	10 005	7 005	4 491	4 491	—	—	25 906	25 972	15 272	21 432	24 920	24 920	—	30 455
Air traffic controllers and broadcast equipment operators	16 376	17 325	3 601	17 705	15 488	17 111	—	18 474	16 434	18 577	15 769	18 838	15 323	17 018	—	21 067
Computer programmers	16 201	16 570	12 184	16 678	12 236	12 236	—	10 005	19 936	20 087	19 949	17 936	16 827	17 018	10 925	21 067
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	19 037	19 311	15 242	16 192	20 892	20 302	25 814	12 389

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Construction, government workers				Construction, self-employed workers				Manufacturing, total				Food and kindred products			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Technical, sales, and administrative support occupations—Con																
Sales occupations	13 852	13 806	19 761	14 505	19 778	19 992	9 623	10 560	21 791	22 153	13 423	14 973	18 101	18 431	14 039	14 806
Supervisors and proprietors, sales occupations	15 818	16 748	—	—	19 860	20 224	—	5 870	24 009	24 482	15 564	18 715	20 272	20 484	17 183	19 073
Salaries	15 818	16 748	—	—	19 860	20 224	—	—	24 009	24 482	15 564	18 715	20 272	20 484	17 183	19 073
Self-employed	15 120	15 295	7 425	—	19 860	20 224	9 623	11 616	19 490	20 513	9 006	18 694	22 765	23 734	32 005	2 005
Sales representatives, finance and business services	11 431	10 629	23 125	14 505	36 428	37 499	—	—	24 020	24 308	16 193	17 378	21 321	21 007	13 958	14 379
Sales representatives, commodities, except retail	10 530	7 308	23 125	—	16 005	14 341	—	—	11 801	7 026	5 729	13 048	11 508	12 122	8 543	7 631
Sales workers, retail and personal services	11 733	11 569	—	14 505	14 035	14 035	—	—	6 694	6 819	5 345	9 311	10 213	10 888	8 225	7 058
Cashiers	28 208	—	—	—	15 755	15 755	—	—	15 968	16 136	14 005	7 339	16 706	15 072	12 405	10 533
Other sales occupations, retail and personal services	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales related occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrative support occupations, including clerical	13 622	13 803	11 365	11 034	20 107	20 627	6 321	21 567	15 332	15 840	12 061	11 390	14 543	15 128	11 511	12 613
Supervisors, administrative support occupations	17 871	18 319	12 947	14 970	22 580	23 776	—8 958	28 783	20 498	20 904	16 125	15 052	18 643	19 023	15 431	17 439
Computer equipment operators	15 454	16 193	10 279	14 922	14 922	14 922	—	—	16 079	16 463	13 741	13 929	14 647	14 968	12 384	15 348
Secretaries, stenographers, and typists	9 560	10 654	4 049	605	30 566	30 566	—	30 505	19 153	20 044	10 362	8 650	14 316	14 560	11 920	6 160
Secretaries	11 827	12 804	5 611	—	31 417	31 417	—	30 505	19 153	20 044	10 362	8 650	14 316	14 560	11 920	6 160
Stenographers and typists	8 136	9 060	3 208	605	1 205	1 205	—	—	12 060	11 545	15 597	9 810	7 560	5 984	10 975	—
Receptionists	10 297	10 297	—	11 005	—	—	—	—	12 060	11 545	15 597	9 810	7 560	5 984	10 975	—
Other information clerks	14 227	14 455	11 969	—	25 839	25 839	—	50 010	16 286	16 659	11 580	13 871	15 036	15 490	9 539	—
File clerks	8 929	9 668	7 703	8 205	1 985	1 985	—	—	15 371	15 710	12 370	11 856	14 552	15 000	9 146	14 413
Other records processing occupations, except financial	11 252	10 891	23 010	—	13 097	13 097	—	—	15 371	15 710	12 370	11 856	14 552	15 000	9 146	14 413
Bookkeepers, accounting, and auditing clerks	13 993	13 692	11 942	10 323	20 958	20 958	18 005	19 291	15 765	16 133	12 551	12 340	14 054	14 255	8 815	14 116
Payroll and timekeeping clerks	12 231	12 025	15 087	7 237	9 338	9 338	—	—	16 124	16 399	14 099	11 313	15 690	15 968	15 066	10 719
Other financial records processing occupations	13 125	13 125	—	—	—	—	—	—	16 655	17 287	13 333	11 069	13 007	13 333	8 163	10 672
Telephone operators	14 098	14 098	—	—	—	—	—	—	14 681	15 329	13 355	9 195	13 167	15 559	5 589	5 589
Mail and message distributing occupations	10 268	10 105	10 648	11 305	6 076	6 076	—	6 705	16 938	17 122	14 196	13 902	15 050	10 490	9 534	10 336
Production coordinators and expeditors	14 469	14 458	14 738	12 719	20 545	20 545	—	—	16 938	17 122	14 196	13 902	15 050	10 490	9 534	10 336
Traffic, shipping, and receiving clerks	12 040	13 244	10 257	6 765	5 925	20 005	2 405	—	14 849	12 193	10 556	9 732	12 973	13 665	10 470	11 790
Stock and inventory clerks	12 376	12 541	10 993	12 413	1 115	1 115	—	—	14 002	14 352	12 053	11 136	13 493	13 951	11 670	11 037
Other material recording, scheduling, and distributing clerks	12 124	12 158	12 526	7 558	13 393	16 096	—	—	15 480	15 931	13 127	11 475	13 956	14 344	12 477	11 037
Adjusters and investigators	15 427	14 998	18 570	12 005	20 709	20 118	8 005	17 659	18 958	19 314	14 017	13 520	18 091	18 516	9 539	10 063
Data-entry keyers	13 486	14 053	—	—	20 438	20 438	—	—	14 074	14 772	11 000	13 658	12 503	12 601	8 636	10 414
Other administrative support occupations	13 228	13 362	10 829	11 717	21 037	21 498	11 748	3 375	16 038	16 548	12 108	11 446	14 714	15 290	10 502	12 647
Service occupations	10 129	10 537	8 200	9 601	11 805	12 342	8 667	8 226	12 398	12 882	10 565	9 890	11 345	11 963	9 327	9 941
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	11 068	11 217	10 842	8 660	20 315	20 315	—	—	13 639	13 774	12 855	11 723	10 797	11 015	9 205	9 462
Guards	10 663	10 858	10 085	8 660	20 315	20 315	—	—	13 639	13 774	12 855	11 723	10 797	11 015	9 205	9 462
Other protective service occupations	15 530	14 773	29 291	—	—	—	—	—	19 566	19 954	17 191	14 599	17 216	17 871	15 135	8 920
Service occupations, except protective and household	9 838	10 288	7 767	9 686	11 551	12 062	8 667	8 226	12 044	12 599	10 145	9 718	11 414	12 098	9 338	9 971
Food preparation and service occupation	11 096	9 073	11 972	10 025	5 403	12 062	—	—	10 339	11 095	8 296	9 295	9 711	10 178	8 688	9 464
Health service occupations	6 941	9 186	2 625	—	28 520	28 520	—	—	15 773	16 580	14 229	9 063	12 258	13 715	9 587	16 472
Cleaning and building service occupations, except household	9 927	10 364	7 894	9 705	11 505	11 817	9 605	8 226	12 089	12 618	10 264	9 720	11 750	12 421	9 539	10 063
Personal service occupations	7 447	8 961	4 498	8 162	16 898	17 200	16 390	—	13 468	14 438	9 549	13 055	11 078	11 637	8 375	19 125
Farming, forestry, and fishing occupations	9 292	9 541	8 204	11 053	9 497	10 440	3 962	9 700	11 535	12 571	6 693	8 884	13 282	14 966	7 172	9 648
Precision production, craft, and repair occupations	13 586	14 142	9 669	12 040	14 526	14 705	10 509	13 908	17 782	18 177	14 681	13 805	15 878	16 435	12 885	13 059
Mechanics and repairers	13 061	13 186	11 325	12 026	14 288	14 544	7 856	13 783	22 905	23 127	19 906	18 967	16 458	16 711	14 361	14 850
Supervisors, mechanics and repairers	17 234	17 399	11 777	17 981	17 496	17 496	—	—	16 231	16 647	13 821	14 400	15 879	16 094	15 479	19 041
Automobile mechanics, including body	12 591	12 591	12 248	9 598	13 498	14 935	4 794	9 088	16 231	16 647	13 821	14 400	15 879	16 094	15 479	19 041
Industrial machinery repairers	12 935	13 233	7 900	11 664	14 125	14 139	13 640	—	16 224	16 462	13 821	14 400	15 879	16 094	15 479	19 041
Electronic repairers, communications and industrial equipment	14 596	15 019	10 142	—	11 548	11 932	—9 995	9 546	16 956	17 230	14 607	14 806	15 617	14 877	41 005	7 005
Heating, air conditioning, and refrigeration mechanics	13 432	13 189	14 090	16 908	15 052	15 165	10 404	15 718	16 338	16 608	13 651	13 597	15 729	15 765	17 547	15 019
Other mechanics and repairers	12 863	13 022	10 851	12 266	13 521	13 862	7 074	11 078	17 668	17 960	15 404	14 890	16 777	16 553	14 319	14 526
Construction trades	13 563	14 242	9 236	11 962	14 519	14 696	10 540	13 887	17 189	17 594	14 118	13 007	18 251	18 624	13 807	15 485
Supervisors, construction occupations	16 278	16 451	12 898	16 673	19 878	19 978	14 827	19 960	22 824	23 086	17 173	18 317	21 226	21 462	9 510	17 584
Carpenters	9 516	10 263	6 772	8 325	12 325	12 448	9 689	11 060	12 698	13 010	10 910	10 250	13 189	13 462	9 976	10 953
Electricians	16 686	16 686	10 286	13 694	15 308	15 369	11 342	13 976	19 472	19 708	16 587	16 650	19 350	19 605	15 849	17 853
Painters, construction and maintenance	10 814	11 237	8 986	9 462	11 353	11 572	7 843	11 047	12 506	12 706	10 411	10 411	13 905	13 946	11 761	11 761
Plumbers, pipefitters, and steamfitters	14 833	16 403	9 781	12 332	15 392	15 601	10 726	14 105	18 897	19 280	15 725	16 493	19 975	20 435	13 426	17 161
Other construction trades	11 360	12 012	8 280	10 173	14 361	14 655	10 585	13 795	15 568	15 610	13 618	12 975	15 994	16 194	15 998	12 243

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Construction, government workers				Construction, self-employed workers				Manufacturing, total				Food and kindred products			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over—Con																
Extraction occupations	13 409	13 750	9 005	10 907	13 809	14 044	9 755	—	16 180	16 522	14 707	14 605	16 509	16 949	15 487	—
Precision production occupations	15 922	15 988	15 441	14 759	16 818	16 929	13 809	—	18 149	18 584	14 767	13 322	15 492	16 145	15 487	12 535
Supervisors, production occupations	15 919	15 960	15 451	15 340	21 837	21 901	17 444	50 193	21 213	21 213	17 327	16 150	18 302	18 700	15 467	15 437
Precision metalworking occupations	16 296	16 426	16 122	15 770	15 875	15 823	23 088	8 304	16 462	16 425	13 605	13 693	16 745	17 513	12 274	14 108
Tool and die makers	—	—	—	—	21 523	21 523	—	—	19 266	19 425	16 228	16 102	19 195	19 286	9 344	24 680
Machinists	15 195	15 318	13 420	15 072	14 959	14 959	23 088	5 446	15 415	15 684	13 087	13 414	16 669	17 495	12 574	12 750
Sheet metal workers	16 000	16 132	16 716	16 977	15 846	15 755	—	9 680	15 605	16 720	13 245	13 209	17 984	18 138	15 372	17 543
Other precision metal workers	18 389	18 543	17 928	12 438	16 002	16 438	—	6 112	16 362	17 031	13 722	13 728	15 494	16 275	7 543	17 451
Precision textile, apparel, and furnishings machine workers	15 012	15 012	—	—	17 562	17 562	—	—	10 567	11 004	9 127	9 176	13 236	13 238	13 205	—
Precision food production occupations	9 941	12 001	525	—	23 382	23 382	—	—	12 507	13 016	10 944	11 057	12 535	13 049	11 002	11 086
Precision inspectors, testers, and related workers	15 212	15 138	16 603	11 169	14 574	14 574	—	—	16 586	17 015	13 665	13 504	15 102	14 921	—	—
Plant and system operators	16 390	16 570	14 935	8 393	20 737	22 887	—	11 706	21 070	21 424	17 605	17 804	19 206	19 547	15 372	15 811
Other precision production occupations	11 713	10 759	—	14 749	9 218	9 520	389	—	12 289	12 661	10 588	10 218	12 204	13 539	7 671	7 681
Operators, fabricators, and laborers	10 814	11 208	8 499	10 007	18 027	18 184	14 005	16 151	13 452	13 954	11 684	10 677	12 842	13 524	10 428	10 574
Machine operators, assemblers, and inspectors	12 838	13 488	9 830	11 426	17 217	17 553	9 292	15 295	13 653	14 116	12 045	10 792	13 103	13 704	11 210	11 209
Machine operators and tenders, except precision	11 725	12 301	9 715	11 996	17 579	18 113	6 924	13 274	13 610	14 103	11 864	10 732	13 254	13 836	11 485	11 434
Metalworking and plastic working machine operators	10 782	12 638	7 416	9 476	10 400	11 034	2 305	8 255	14 709	15 005	13 398	11 808	12 018	13 212	9 094	9 056
Fabricating machine operators, n.e.c.	16 050	19 338	9 005	—	14 055	16 213	—	—	13 963	14 281	12 260	11 931	12 504	14 017	2 920	12 605
Metal and plastic processing and woodworking machine operators	9 774	12 489	8 508	—	15 465	17 432	1 012	—	12 272	12 594	10 723	10 782	13 151	13 204	13 531	13 661
Printing machine operators	13 448	12 596	18 880	—	10 031	12 906	1 405	—	5 035	15 357	12 066	12 203	13 370	13 322	13 242	11 560
Textile machine operators	18 496	18 496	—	—	14 100	14 100	—	—	9 991	10 413	8 823	8 985	11 703	11 792	11 354	10 034
Textile sewing machine operators	9 121	9 121	—	—	10 144	10 144	—	—	8 640	9 691	7 969	6 765	12 250	13 276	4 977	14 643
Laundry and dry cleaning machine operators	—	—	—	—	13 524	13 524	—	—	11 058	12 171	9 141	6 686	11 664	13 254	7 148	8 929
Packaging and filling machine operators	11 268	13 485	5 725	—	3 255	—	—	—	12 780	13 285	10 316	6 386	12 963	13 456	11 412	10 629
Furnace, kiln, and oven operators, except food	14 553	15 301	12 473	13 365	3 255	3 255	—	—	16 869	17 388	14 576	15 090	16 387	16 579	14 627	14 372
Other specified machine operators	10 968	11 988	7 472	12 631	15 666	16 546	6 106	10 248	13 163	13 572	11 809	10 526	13 616	14 085	11 617	11 113
Miscellaneous and not specified machine operators	11 577	12 007	9 872	12 311	20 379	20 501	11 939	17 198	13 556	14 114	12 084	10 579	13 039	13 724	11 456	11 437
Fabricators, assemblers, and hand working occupations	13 321	14 015	9 858	11 168	17 073	17 310	12 400	16 907	13 183	13 567	12 200	10 656	12 084	12 770	9 298	10 612
Welders and cutters	14 216	14 846	11 051	11 052	18 088	18 488	8 270	19 573	14 255	14 594	12 812	12 382	14 708	14 948	11 534	13 438
Solders and brazers	3 305	3 305	—	—	—	—	—	—	10 386	10 789	9 092	8 229	19 414	23 005	15 225	19 414
Assemblers	9 075	10 064	5 286	12 303	12 263	11 285	31 589	870	12 578	12 966	11 957	9 818	10 777	10 968	8 593	9 840
Hand working occupations	11 400	11 827	8 600	10 231	13 008	13 139	—	9 805	12 182	12 534	10 944	10 584	12 116	12 872	9 786	9 468
Production inspectors, testers, samplers, and weighers	14 924	15 279	10 703	4 888	14 713	14 713	—	—	15 612	15 997	13 521	12 586	12 603	13 310	10 114	8 959
Graders and sorters, except agricultural	12 161	12 161	—	—	6 682	6 682	—	—	11 835	12 607	8 837	9 384	9 474	10 337	7 260	5 627
Other production inspectors, testers, samplers, and weighers	14 990	15 360	10 703	4 888	17 756	17 756	—	—	15 875	16 211	14 042	12 947	13 839	14 425	11 191	11 821
Transportation and material moving occupations	11 592	11 782	9 644	11 191	18 687	18 752	16 639	18 066	14 599	15 157	12 270	12 121	14 574	15 145	11 708	11 695
Transportation occupations	10 880	11 190	8 782	10 352	18 089	18 104	18 560	18 787	14 825	15 417	12 013	11 809	15 124	15 634	11 738	12 055
Motor vehicle operators	10 676	10 958	8 784	10 217	17 942	17 935	18 768	18 787	14 702	15 299	11 881	11 603	15 122	15 635	11 729	12 023
Truck drivers	10 661	10 944	8 769	10 127	17 904	17 882	18 768	18 787	14 702	15 299	11 881	11 603	15 122	15 635	11 729	12 023
Driversales workers	26 466	26 466	—	30 010	13 196	13 196	—	—	14 575	15 199	11 797	11 527	14 648	15 267	11 402	11 713
Other motor vehicle operators	11 281	12 466	9 541	11 950	22 135	22 966	8 705	8 005	14 992	15 812	12 482	12 877	16 123	16 123	12 941	13 065
Rail and water transportation occupations	16 097	16 920	8 725	15 995	23 177	23 906	—	—	14 922	15 761	12 689	11 052	16 313	17 030	12 114	10 172
Material moving occupations	12 170	12 239	10 934	11 775	18 817	18 883	14 899	17 602	14 387	14 923	12 928	19 846	15 901	15 486	20 620	18 451
Supervisors, material moving equipment operators	16 413	16 884	11 005	13 678	20 766	20 766	—	—	21 295	21 492	20 806	16 736	17 099	17 216	16 803	6 898
Crane, hoist, and winch operators	15 472	15 756	15 120	13 956	20 766	20 766	—	—	18 422	18 940	12 476	12 585	13 029	12 845	10 530	12 699
Excavating, grading, and dozer machine operators	11 167	11 278	8 966	10 924	18 102	18 175	15 041	21 187	15 102	15 404	16 359	13 704	14 828	13 425	21 191	10 692
Other material moving equipment operators	12 496	12 562	11 278	11 983	19 570	19 654	15 029	15 003	13 324	13 823	11 476	11 388	12 928	13 455	11 567	11 266
Handlers, equipment cleaners, helpers, and laborers	9 622	10 140	7 650	8 862	9 731	9 915	7 178	8 725	11 290	11 802	9 869	9 214	10 577	11 236	8 609	9 116
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Helpers, craft and production	10 824	11 531	7 485	385	23 344	23 344	7 870	8 814	19 942	21 009	11 457	10 731	13 774	15 508	6 075	—
Construction laborers	8 737	9 296	7 651	7 802	8 551	8 439	—	—	12 158	12 158	11 410	9 400	10 500	10 500	10 500	10 095
Freight, stock, and material handlers	9 646	10 161	8 406	8 916	12 646	12 646	628	7 630	12 210	12 929	9 449	9 449	12 232	12 874	9 143	10 364
Garage and service station occupations, and equipment cleaners	9 982	10 594	8 406	11 416	12 646	12 646	—	—	11 354	11 930	9 119	10 005	10 478	10 916	8 622	9 556
Hand packers and packagers	9 047	9 345	6 213	9 873	16 333	16 333	—	—	11 506	11 890	10 819	9 015	11 060	11 148	11 322	9 700
Laborers, except construction	12 643	12 643	—	13 005	8 286	8 286	—	—	10 324	10 887	9 055	8 107	10 683	11 769	8 769	8 870

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Cont.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Construction, government workers				Construction, self-employed workers				Manufacturing, total				Food and kindred products			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over	9 383	8 589	8 396	7 765	7 711	7 678	8 917	7 792	8 731	8 915	8 225	6 819	8 296	8 563	7 439	6 744
Managerial and professional specialty occupations	12 993	13 052	12 699	10 753	10 990	10 894	23 351	12 372	13 448	13 463	13 316	11 633	13 614	13 567	12 356	13 008
Executive, administrative, and managerial occupations	12 912	12 907	13 128	11 601	12 748	12 651	23 909	14 278	13 974	14 046	13 320	11 824	13 708	13 665	12 137	13 222
Officials and administrators, public administration	12 413	12 481	11 649	—	—	—	—	—	9 359	9 359	—	—	—	—	—	—
Financial managers	13 905	13 905	—	17 355	—	—	—	—	15 553	15 570	14 272	13 536	15 908	15 625	16 044	—
Managers, marketing, advertising, and public relations	—	—	—	—	7 414	7 414	—	—	14 579	14 608	14 515	12 516	17 161	17 362	15 854	11 557
Administrators, education and related fields	—	—	—	—	10 169	10 169	—	—	13 856	14 017	13 008	—	29 542	29 542	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	14 785	14 391	17 674	10 005	9 659	9 943	8 805	—	15 438	15 524	15 394	12 790	15 309	15 384	15 028	10 470
Managers and administrators, n.e.c.	12 827	13 006	11 447	11 541	12 753	12 588	25 626	14 278	14 554	14 663	13 011	11 850	14 476	14 318	10 601	14 980
Salaries	12 827	13 006	11 447	11 541	12 753	12 588	25 626	14 278	15 083	15 226	13 097	12 199	14 707	14 824	10 658	16 864
Self-employed	—	—	—	—	12 753	12 588	25 626	—	8 759	8 444	10 183	9 237	12 222	9 364	4 775	3 050
Management related occupations	12 666	12 681	12 729	11 153	15 066	15 406	—	—	12 896	12 889	13 167	11 363	11 807	11 785	11 871	11 748
Accountants and auditors	12 614	12 608	12 837	11 649	8 350	8 350	—	—	12 684	12 635	12 290	11 264	11 524	11 481	11 615	11 341
Personnel, training, and labor relations specialists	14 137	14 505	12 043	8 654	6 935	6 935	—	—	13 527	13 586	13 481	11 460	12 863	12 880	13 204	11 341
Buyers and purchasing agents	11 967	12 165	11 818	—	12 645	12 645	—	—	12 404	12 391	12 896	11 297	12 002	12 002	8 938	12 505
Inspectors and compliance officers	10 454	10 248	12 059	—	20 005	20 005	—	—	10 589	11 032	9 095	9 472	8 300	7 904	8 925	12 532
Other management related occupations	16 012	15 906	16 324	16 387	32 316	36 860	—	—	14 603	14 675	13 693	13 277	13 413	13 122	16 573	16 505
Professional specialty occupations	13 136	13 299	11 272	9 155	7 650	7 673	—	5 222	12 650	12 574	13 312	11 269	13 291	13 213	12 854	12 162
Engineers, architects, and surveyors	13 106	13 140	11 272	9 155	7 650	7 673	—	—	14 694	14 716	13 695	13 201	14 686	15 082	8 087	9 093
Architects	12 387	13 535	14 558	19 025	3 875	3 875	—	—	11 457	14 739	7 105	—	20 005	20 005	—	—
Engineers	13 415	13 308	7 130	13 005	6 269	6 269	—	—	14 710	14 720	13 724	13 556	14 651	15 046	8 087	9 093
Civil engineers	13 664	13 459	9 005	13 005	6 269	6 269	—	—	12 066	12 304	10 226	19 537	15 411	17 320	—	—
Electrical and electronic engineers	14 561	13 780	—	—	—	—	—	—	15 716	15 877	12 113	13 524	19 117	17 896	—	—
Industrial engineers	10 683	13 434	6 005	—	—	—	—	—	13 326	13 275	14 213	11 847	13 573	13 418	16 049	—
Mechanical engineers	—	—	—	—	—	—	—	—	16 305	16 359	14 925	16 911	23 937	23 937	—	—
Other engineers	12 425	12 425	—	—	—	—	—	—	9 040	16 171	13 733	16 116	15 745	17 841	1 453	20 005
Surveyors and mapping scientists	10 094	9 703	18 205	4 838	415	415	—	—	9 119	9 119	—	—	—	—	—	—
Computer systems analysts and scientists	15 775	16 649	6 035	—	—	—	—	—	16 713	16 701	16 789	14 972	18 104	18 156	18 326	25 005
Operations and systems researchers and analysts	14 706	14 695	—	—	—	—	—	—	16 408	16 603	14 637	13 439	16 074	16 100	15 488	—
Mathematical scientists	11 125	11 519	—	8 005	15 904	15 904	—	—	14 658	14 617	11 908	9 308	14 097	14 039	12 505	11 005
Natural scientists	13 922	10 880	—	—	—	—	—	—	15 100	15 043	14 775	13 055	12 917	12 443	12 512	11 968
Chemists, except biochemists	10 896	11 563	—	8 005	15 904	15 904	—	—	15 208	15 133	14 745	13 619	14 039	13 280	12 491	12 740
Other natural scientists	—	—	—	—	—	—	—	—	14 847	14 854	14 860	11 242	11 850	11 817	12 568	8 265
Health diagnosing occupations	15 775	15 856	15 505	—	—	—	—	—	21 479	20 062	33 274	12 809	8 681	7 763	—	—
Health assessment and treating occupations	16 456	16 889	14 005	—	1 599	1 599	—	—	14 423	14 322	16 876	12 809	12 168	12 281	15 731	13 673
Registered nurses	13 505	10 005	17 005	—	1 465	1 465	—	—	14 434	14 321	17 567	13 243	12 516	11 872	16 520	13 959
Other health assessment and treating occupations	—	—	—	—	1 755	1 755	—	—	14 201	14 341	12 189	8 652	14 435	14 740	13 757	13 005
Teachers, except postsecondary	10 840	9 005	12 125	—	5 008	5 008	—	—	10 425	10 426	11 163	8 657	11 915	11 787	16 205	6 774
Social scientists and urban planners	13 120	13 165	11 925	—	3 605	3 605	—	—	14 930	14 840	16 603	12 954	13 731	14 163	10 800	15 489
Social and recreation workers	9 612	8 933	11 875	9 885	—	—	—	—	9 956	10 106	9 028	10 981	9 280	8 538	11 505	—
Lower and judges	19 787	19 787	—	—	—	—	—	—	24 883	25 115	22 066	31 853	17 596	16 628	24 073	—
Writers, artists, entertainers, and athletes	11 889	12 395	8 524	6 287	7 792	7 820	—	5 222	10 734	10 728	10 997	10 056	11 956	12 183	6 502	8 188
Other professional specialty occupations	13 944	11 766	9 005	—	—	—	—	—	12 685	12 743	11 793	10 678	10 808	10 808	—	—
Technical, sales, and administrative support occupations	9 407	9 416	9 549	8 646	7 099	7 077	7 664	6 700	9 519	9 537	9 553	8 307	8 974	8 989	8 941	8 065
Technicians and related support occupations	9 769	9 674	10 888	7 110	7 850	8 270	5 255	3 005	11 753	11 767	11 742	10 350	10 391	10 266	11 668	8 982
Health technicians and technicians	13 067	14 623	9 955	—	—	—	—	—	11 318	11 422	11 201	8 515	10 384	10 379	11 851	9 605
Licensed practical nurses	—	—	—	—	—	—	—	—	10 305	10 356	10 095	8 578	9 556	9 711	7 645	—
Other health technicians and technicians	13 067	14 623	9 955	—	—	—	—	—	11 924	11 924	12 516	8 578	11 206	10 791	15 005	9 605
Engineering and science technicians	9 760	9 668	10 029	6 828	7 467	7 702	5 255	3 005	11 052	11 075	11 188	10 189	9 882	9 718	11 754	8 554
Electrical and electronic technicians	12 562	10 159	19 255	—	5 255	5 255	—	—	10 741	10 851	10 261	10 169	8 397	8 397	—	—
Industrial and mechanical engineering technicians	9 581	11 268	5 365	—	20 005	20 005	—	—	12 010	12 088	11 623	11 530	10 568	10 073	—	—
Drafting and surveying technicians	9 702	9 733	10 437	5 705	5 934	5 934	—	3 005	10 365	10 405	10 198	9 795	10 365	10 568	12 462	11 005
Other engineering and science technicians	9 639	9 499	10 572	9 243	9 441	9 441	—	—	11 319	11 318	11 522	10 311	9 885	9 727	11 729	8 602
Technicians, except health, engineering, and science	9 694	9 576	10 558	7 723	10 064	12 081	—	—	13 447	13 429	13 414	11 311	13 440	13 502	11 074	12 947
Airplane pilots and navigators	—	—	—	—	8 325	8 325	—	—	13 294	13 294	—	10 536	1 480	1 480	—	—
Air traffic controllers and broadcast equipment operators	7 596	7 224	9 766	4 063	8 325	8 325	—	—	10 538	9 951	11 874	6 093	8 015	11 015	—	—
Computer programmers	11 789	11 772	12 290	—	12 419	12 419	—	—	14 266	14 178	15 008	12 514	13 834	13 921	10 204	15 697
Other technicians, except health, engineering, and science	10 045	10 079	8 927	10 307	6 005	15 005	—	—	12 027	12 133	11 324	10 512	13 016	13 002	11 866	20 825

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Construction, government workers				Construction, self-employed workers				Manufacturing, total				Food and kindred products			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations	9 037	8 949	9 383	8 605	6 492	6 541	—	1 378	8 706	8 777	8 010	7 066	6 351	6 412	6 334	5 358
Supervisors and proprietors, sales occupations	—	—	—	—	8 229	9 003	—	—	10 462	10 440	10 407	8 575	8 246	8 560	5 087	8 193
Self-employed	—	—	—	—	—	—	—	—	10 752	10 727	10 416	8 533	8 422	8 784	5 087	5 226
Sales representatives, finance and business services	11 066	10 789	13 005	—	8 229	9 003	—	2 755	7 044	7 166	6 005	9 024	6 414	6 414	—	25 005
Sales representatives, commodities, except retail	—	—	—	—	6 659	6 659	—	—	10 321	10 381	9 663	9 024	11 133	9 145	—	9 145
Sales workers, retail and personal services	8 135	8 010	8 538	8 605	2 172	1 097	—	—	10 171	10 284	9 168	6 485	6 501	6 501	7 418	4 835
Cashiers	7 543	7 196	8 538	8 605	2 223	2 223	—	—	4 720	4 661	5 490	4 845	5 729	5 783	5 330	5 692
Other sales occupations, retail and personal services	15 005	15 005	—	—	2 159	721	—	—	7 045	7 242	6 375	5 663	5 729	5 729	5 330	5 316
Sales related occupations	—	—	—	—	—	—	—	—	3 921	3 884	4 604	3 477	6 530	6 346	—	12 218
Administrative support occupations, including clerical	9 373	9 393	9 428	8 816	7 127	7 092	7 901	6 947	9 424	9 448	9 453	8 239	9 155	9 176	8 926	8 374
Supervisors, administrative support occupations	13 047	13 487	8 764	11 853	9 848	10 011	7 510	8 005	13 326	13 326	10 936	10 334	12 917	12 991	9 311	11 385
Computer equipment operators	9 732	9 730	8 685	10 845	—	—	—	—	10 197	10 138	10 936	9 524	9 748	9 851	9 187	10 068
Secretaries, stenographers, and typists	9 165	9 375	7 589	7 544	6 823	6 868	2 981	6 424	9 625	9 630	9 375	8 334	9 354	9 356	9 271	9 778
Secretaries	9 771	9 967	7 683	8 157	6 876	6 924	2 981	6 838	9 916	9 937	9 875	9 636	9 664	9 987	10 507	9 978
Stenographers and typists	8 076	8 199	7 521	6 068	5 803	5 803	5 005	—	7 777	7 691	6 721	5 634	8 228	7 987	10 507	9 778
Receptionists	7 779	7 136	9 766	2 005	5 221	5 244	—	—	7 012	7 041	6 182	5 321	8 326	7 315	8 512	5 398
Other information clerks	6 480	6 536	6 264	6 264	5 821	5 821	—	—	7 930	7 934	7 371	6 351	8 329	8 326	8 329	2 838
File clerks	6 543	6 569	6 422	1 705	6 255	6 255	—	6 255	7 845	7 834	7 957	6 397	8 597	8 427	9 098	6 952
Other records processing occupations, except financial	9 874	9 767	10 679	—	8 722	8 722	—	—	9 169	9 208	9 229	7 787	8 666	8 748	8 101	7 086
Bookkeepers, accounting, and auditing clerks	10 198	10 160	10 905	11 821	7 259	7 138	12 248	7 376	9 296	9 283	9 707	8 706	8 781	8 756	8 932	8 638
Payroll and timekeeping clerks	9 285	9 099	10 959	6 805	9 156	9 156	—	—	9 922	9 901	10 400	9 609	9 745	9 694	11 154	9 826
Other financial records processing occupations	10 626	11 072	5 505	7 005	3 425	3 425	—	—	9 107	9 166	8 890	7 164	8 821	8 907	8 186	6 180
Telephone operators	8 486	8 518	7 105	6 330	3 890	3 890	—	—	8 352	8 397	6 299	6 454	8 332	8 332	7 970	8 593
Relief and message distributing occupations	8 499	9 009	7 260	—	3 220	3 220	—	—	6 530	6 599	6 811	6 198	7 375	7 398	5 293	8 421
Production coordinators and expeditors	10 216	10 270	5 792	23 562	11 196	11 196	—	—	10 827	10 897	10 511	9 657	9 967	10 159	7 093	7 082
Traffic, shipping, and receiving clerks	7 990	8 670	3 005	—	—	—	—	—	8 515	8 559	8 543	7 059	9 618	9 720	9 917	7 082
Stock and inventory clerks	9 183	9 469	8 205	10 417	1 255	1 255	—	—	9 709	9 725	9 985	8 415	9 525	9 584	9 788	8 973
Other material handling, scheduling, and distributing clerks	9 081	9 115	—	8 389	7 516	7 516	—	—	8 956	9 050	8 662	7 337	9 229	9 387	7 643	7 332
Advisers and negotiators	11 127	12 211	7 453	8 873	7 768	7 768	—	—	10 580	10 637	10 062	9 916	10 800	10 795	10 664	11 513
Data-entry keyers	8 065	8 184	6 517	8 873	8 872	8 872	—	—	9 310	9 266	9 594	8 873	8 750	8 585	9 472	7 804
Other administrative support occupations	9 417	8 685	14 541	9 629	6 931	6 978	4 005	6 905	8 683	8 681	9 052	7 561	8 385	8 396	8 202	7 355
Service occupations	6 630	6 836	6 154	5 934	4 656	4 681	4 521	5 813	7 571	7 705	7 325	6 398	6 545	6 586	6 289	6 545
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	6 372	6 744	6 794	9 005	3 005	3 005	—	—	10 828	10 687	11 726	9 510	8 988	8 739	10 126	13 539
Guards	6 637	6 463	6 893	9 005	3 005	3 005	—	—	10 740	10 587	11 746	9 270	8 560	8 117	10 126	11 884
Other protective service occupations	5 207	8 945	6 005	5 810	4 673	4 701	4 521	5 813	12 515	12 891	11 029	11 043	15 434	12 434	—	18 505
Service occupations, except protective and household	6 653	6 846	6 103	—	—	—	—	—	7 290	6 418	6 119	6 243	6 493	5 339	6 188	6 450
Food preparation and service occupation	3 948	4 204	3 702	7 005	10 097	10 097	—	—	6 244	6 244	6 148	5 533	5 533	5 399	5 525	6 037
Health service occupations	9 434	7 387	10 469	5 414	4 624	4 649	4 521	5 813	7 676	7 700	8 328	6 771	8 333	8 833	6 561	6 149
Cleaning and building service occupations, except household	6 840	7 297	6 001	5 414	2 196	2 196	—	—	7 366	7 792	7 247	6 567	7 532	7 809	6 785	6 889
Personal service occupations	6 393	6 566	4 642	7 919	—	—	—	—	7 033	6 975	6 686	5 764	5 764	5 143	8 637	3 181
Farming, forestry, and fishing occupations	7 307	6 970	9 705	10 228	5 515	5 515	—	—	6 485	6 910	6 576	5 918	5 251	5 680	4 531	3 294
Precision production, craft, and repair occupations	7 519	8 124	6 754	6 321	7 358	7 312	7 975	7 583	9 271	9 487	8 878	7 592	7 705	8 056	6 584	7 112
Mechanics and repairers	8 395	8 734	7 400	9 313	5 584	4 770	—	3 255	10 258	10 318	10 246	9 051	11 138	11 181	10 802	9 481
Supervisors, mechanics and repairers	—	—	—	—	—	—	—	—	13 891	14 287	10 483	12 916	10 136	10 136	—	—
Automobile mechanics, including body	7 330	6 426	8 924	—	6 677	6 855	—	3 255	10 655	10 914	9 862	9 689	12 283	12 060	13 295	10 921
Industrial machinery repairers	9 305	9 305	—	—	6 855	6 855	—	—	10 322	10 371	9 793	11 454	9 883	9 672	11 604	8 076
Electronic repairers, communications and industrial equipment	10 005	10 005	—	—	—	—	—	—	9 969	9 949	10 020	8 605	—	—	—	—
Heating, air conditioning, and refrigeration mechanics	4 264	4 264	—	—	6 669	4 498	—	—	10 604	10 513	10 411	9 476	10 913	10 913	—	—
Other mechanics and repairers	9 257	10 262	6 719	9 313	4 841	4 841	—	—	10 172	10 218	10 448	8 407	14 550	13 329	10 212	9 955
Construction trades	7 180	7 725	6 671	5 827	7 399	7 362	7 975	7 691	8 799	8 842	9 039	6 793	7 705	8 025	11 425	9 890
Supervisors, construction occupations	10 522	11 210	8 031	7 785	10 666	10 537	10 790	12 517	6 769	6 749	6 845	7 593	14 954	14 954	—	—
Carpenters	3 901	3 783	4 877	1 482	7 867	7 896	7 913	8 460	7 104	7 020	3 318	8 287	3 323	3 323	14 682	16 005
Electricians	10 913	12 541	11 142	5 940	8 265	8 451	7 291	6 005	11 099	11 451	10 509	8 130	15 322	15 544	14 682	—
Painters, construction and maintenance	5 259	5 703	6 620	6 088	5 688	5 673	6 047	4 469	7 244	7 009	8 520	5 148	9 097	9 097	11 965	—
Plumbers, pipefitters, and steamfitters	6 515	10 070	6 965	8 043	10 567	10 777	10 362	6 005	9 670	10 205	9 779	5 966	7 722	7 017	8 434	8 434
Other construction trades	7 164	7 132	8 470	7 405	6 696	6 648	8 862	6 379	8 482	8 339	9 086	7 541	7 602	8 057	7 329	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Construction, government workers				Construction, self-employed workers				Manufacturing, total				Food and kindred products			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extraction occupations	10 928	11 617	7 371	—	4 489	4 489	—	—	9 589	10 459	7 223	1 511	7 160	7 160	—	—
Precision production occupations	13 149	14 271	2 115	20 010	—734	—	—	—	9 182	9 419	8 693	7 524	7 962	7 962	6 505	7 053
Supervisors, production occupations	10 867	11 510	9 923	—	4 643	4 643	—	—	11 427	11 570	11 121	8 963	10 922	11 300	8 673	9 366
Precision metalworking occupations	6 547	9 514	1 355	—	755	755	—	—	11 786	11 930	11 773	7 480	11 205	11 205	10 011	7 692
Tool and die makers	17 203	15 005	19 715	—	10 005	10 005	—	—	8 907	8 960	9 089	7 320	8 587	8 156	9 953	7 710
Machinists	—	—	—	—	5 255	5 255	—	—	10 249	10 347	9 865	9 130	16 124	19 587	9 953	8 505
Sheet metal workers	—	—	—	—	5 107	5 107	—	—	8 319	8 325	9 062	7 859	7 798	7 226	10 370	7 005
Other precision metal workers	—	—	—	—	—	—	—	—	6 274	6 425	6 136	5 308	5 818	6 030	7 005	7 485
Precision textile, apparel, and furnishings machine workers	9 885	8 179	9 885	—	5 107	5 107	—	—	6 511	6 681	6 018	6 228	6 520	6 692	6 021	7 485
Precision food production occupations	7 515	12 687	3 005	—	—	—	—	—	9 497	9 625	9 610	7 641	9 200	10 859	3 647	9 205
Precision inspectors, testers, and related workers	12 687	12 687	—	20 010	12 255	12 255	—	—	12 158	12 216	10 029	19 318	11 607	11 208	6 005	7 005
Plant and system operators	2 605	2 605	—	—	2 918	2 918	—	—	7 810	7 889	7 931	7 118	7 755	7 039	3 495	7 024
Other precision production occupations	6 578	6 871	5 574	5 203	6 789	7 041	5 068	903	7 527	7 637	7 633	6 154	7 503	7 725	7 268	6 234
Operators, fabricators, and laborers	8 623	9 389	6 006	6 644	7 942	8 153	—	861	7 514	7 622	7 630	6 143	7 453	7 902	7 366	6 226
Metal operators, assemblers, and inspectors	9 220	9 605	6 332	5 266	10 943	11 640	—	861	7 079	7 204	7 107	5 813	8 024	8 277	7 415	7 725
Metal and plastic machine operators	21 003	21 003	—	—	—	—	—	—	9 072	9 048	9 392	7 548	8 659	9 453	6 615	8 787
Metal and plastic processing and woodworking machine operators	—	—	—	—	—	—	—	—	8 162	8 200	8 265	6 205	6 428	6 428	—	5 705
Printing machine operators	9 513	10 758	6 192	285	6 059	6 059	—	805	7 660	7 704	7 504	7 141	7 880	7 949	7 773	6 000
Textile machine operators	—	—	—	—	—15 000	—15 000	—	—	7 565	7 511	8 295	8 667	8 740	8 709	7 534	10 334
Textile sewing machine operators	—	—	—	—	14 005	14 005	—	—	7 463	7 361	7 305	6 045	6 986	7 549	5 798	1 805
Laundry and dry cleaning machine operators	—	—	—	—	—	—	—	—	5 737	5 855	5 734	5 220	6 197	6 286	6 708	1 797
Packaging and filling machine operators	—	—	—	—	—	—	—	—	6 302	7 033	5 466	3 800	9 740	10 076	8 994	6 989
Furnace, kiln, and oven operators, except food	5 012	5 381	6 05	—	5 764	6 698	—	—	7 770	7 862	7 920	6 144	7 831	8 024	7 614	6 198
Other specified machine operators	9 909	9 692	8 230	8 332	23 531	23 531	—	905	11 278	11 478	10 633	7 261	12 792	12 939	15 631	12 605
Miscellaneous and not specified machine operators	7 824	9 141	5 544	7 755	5 747	5 747	—	—	8 124	8 263	8 126	6 428	7 128	7 706	5 784	6 320
Fabricators, assemblers, and hand working occupations	9 800	15 008	4 734	6 338	5 747	5 747	—	—	8 055	8 089	8 571	6 693	6 592	6 685	6 705	5 636
Welders and cutters	5 955	5 955	—	—	5 755	5 755	—	—	9 111	9 092	9 571	7 346	7 667	7 992	7 722	4 581
Solders and brazers	5 726	5 232	6 091	12 005	4 215	4 215	—	—	7 419	7 436	7 608	6 909	7 189	7 720	9 189	3 605
Assemblers	8 517	6 533	4 962	10 005	7 251	7 251	—	—	8 083	8 122	8 586	6 714	6 805	6 908	6 829	5 992
Hand working occupations	9 180	9 130	9 545	10 005	1 605	1 605	—	—	6 375	6 422	6 825	5 341	6 029	6 081	6 379	5 110
Production inspectors, testers, samplers, and weighers	—	—	—	—	—	—	—	—	8 828	8 899	8 917	7 370	7 110	7 437	6 818	5 405
Graders and sorters, except agricultural	—	—	—	—	—	—	—	—	6 641	6 778	6 744	5 139	5 451	5 703	5 143	4 453
Other production inspectors, testers, samplers, and weighers	9 180	9 130	9 545	10 005	1 605	1 605	—	—	9 001	9 048	9 130	7 751	8 325	8 585	7 677	7 159
Transportation and material moving occupations	8 164	8 338	7 309	3 475	8 679	9 154	5 068	—	9 046	9 067	9 502	6 991	9 596	9 776	9 122	8 163
Transportation occupations	6 978	7 069	6 651	4 803	7 862	7 812	10 505	—	8 444	8 414	8 828	7 995	8 712	9 338	5 254	5 858
Motor vehicle operators	6 823	6 881	7 049	5 002	8 167	8 119	10 505	—	8 329	8 329	8 586	7 944	8 711	9 339	5 254	5 858
Truck drivers	6 999	7 034	7 384	5 002	8 834	8 794	10 505	—	8 539	8 487	9 181	7 990	8 469	9 124	6 205	6 284
Driver-sales workers	4 330	4 915	—	4 005	3 705	3 705	—	—	7 381	7 381	7 583	5 902	8 727	9 043	5 535	5 535
Other motor vehicle operators	3 880	10 938	405	—	3 705	3 705	—	—	8 315	8 352	8 324	9 121	11 874	12 716	6 005	2 005
Rail and water transportation occupations	9 810	10 142	8 972	2 191	9 426	10 578	3 255	—	11 911	11 992	12 384	9 764	10 074	10 041	10 349	—
Material moving equipment operators	12 114	1 295	18 605	—	5 923	5 923	—	—	16 366	15 859	26 436	18 998	10 062	10 041	10 349	—
Supervisors, material moving equipment operators	6 764	10 221	12 005	360	7 794	7 794	—	—	13 481	13 509	12 785	14 713	10 062	9 982	2 084	—
Crane, hoist, and winch operators	9 775	10 208	7 518	3 699	13 577	22 586	3 255	—	9 481	9 633	9 836	7 588	10 912	13 099	5 005	8 308
Excavating, grading, and dozer machine operators	—	—	—	—	—	—	—	—	8 896	8 958	9 320	6 605	10 059	10 004	10 668	8 792
Other material moving equipment operators	5 414	5 488	5 091	5 512	4 278	4 431	—	934	7 416	7 540	7 448	6 145	7 253	7 400	7 098	6 180
Handlers, equipment cleaners, helpers, and laborers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, handlers, equipment cleaners, and laborers	3 922	3 372	4 955	255	4 407	4 575	—	—	11 055	11 776	10 595	8 505	14 560	14 560	8 708	6 323
Helpers, craft and production	5 531	5 671	5 027	5 831	2 195	2 195	—	934	7 919	7 881	8 754	8 296	7 472	7 472	7 005	8 308
Construction laborers	6 663	8 471	3 047	—	—	—	—	—	8 142	8 161	8 754	12 653	8 660	9 217	6 704	4 504
Freight, stock, and material handlers	—	—	—	—	—	—	—	—	7 726	7 872	7 387	6 344	7 598	7 939	6 631	6 631
Garage and service station occupations, and equipment cleaners	1 795	1 795	—	—	2 005	2 005	—	—	7 743	7 646	8 118	6 734	8 193	8 070	9 143	6 370
Hand packers and packagers	7 590	—	—	—	—	—	—	—	7 398	7 489	7 693	5 987	7 473	7 964	3 326	3 326
Labors, except construction	—	—	—	—	—	—	—	—	7 255	7 456	6 976	6 360	6 334	6 903	5 364	5 436

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Textile mill products				Apparel and other finished textile products				Paper and allied products				Printing, publishing, and allied industries			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed males 16 years and over	13 056	14 054	8 939	9 872	14 850	16 643	8 459	8 486	18 173	18 952	12 978	12 627	16 767	17 291	11 389	12 030
Managerial and professional specialty occupations	27 119	27 705	13 637	20 782	30 565	31 749	15 535	18 706	29 664	30 094	18 722	21 048	23 396	23 769	15 446	18 059
Executive, administrative, and managerial occupations	28 948	29 526	14 478	21 466	31 991	33 187	16 668	19 600	32 582	32 582	19 033	21 901	28 078	28 510	17 259	21 732
Officials and administrators, public administration	26 648	27 226	11 444	20 348	27 734	28 022	12 050	17 865	30 522	30 586	27 918	—	—	—	—	—
Financial managers	36 088	36 413	1 285	48 629	39 440	40 177	11 832	21 726	34 040	34 109	18 791	31 306	24 671	25 010	18 368	26 395
Managers, marketing, advertising, and public relations	23 444	23 444	—	—	72 551	72 551	—	—	23 644	24 505	19 985	—	16 283	16 283	17 617	17 832
Administrators, education and related fields	22 469	22 818	14 218	14 735	24 873	26 249	5 795	14 951	26 522	26 522	22 050	20 034	23 824	23 959	17 754	13 260
Managers, medicine and health	30 870	31 466	15 339	20 837	32 945	34 201	17 807	20 752	35 722	36 368	18 940	20 153	30 313	30 744	16 905	13 678
Managers and administrators, n.e.c.	31 045	31 645	14 970	20 836	33 950	35 150	18 354	20 461	35 823	36 443	19 008	21 055	31 734	32 188	17 014	24 754
Self-employed	25 249	25 578	35 270	20 856	22 909	23 510	10 147	21 955	28 435	30 594	14 005	5 349	21 292	21 487	16 174	18 779
Management related occupations	19 971	20 355	13 767	13 209	22 084	23 002	14 022	13 848	21 764	21 988	17 051	22 971	20 536	20 947	17 062	17 437
Accountants and auditors	19 954	20 131	15 033	13 752	20 344	21 105	12 199	14 289	21 043	21 273	16 904	28 411	19 271	19 681	17 447	14 775
Personnel, training, and labor relations specialists	19 251	19 995	13 124	14 718	22 772	22 655	16 929	11 150	22 170	22 022	22 167	20 770	22 020	22 546	17 414	14 998
Buyers and purchasing agents	13 337	11 561	10 034	14 795	22 373	22 764	12 442	14 609	20 145	20 317	17 477	13 416	17 539	17 539	13 914	18 411
Inspectors and compliance officers	23 951	23 870	27 005	1 755	26 525	26 525	—	—	25 926	26 349	16 005	33 675	15 621	15 621	—	—
Other management related occupations	20 184	20 632	11 253	16 573	24 891	35 390	—	35 885	29 308	30 338	15 034	32 845	27 073	27 457	16 626	24 075
Professional specialty occupations	20 812	20 925	15 501	27 634	20 956	21 813	12 360	11 825	23 276	23 479	17 954	18 451	17 825	18 055	13 644	13 925
Engineers, architects, and surveyors	20 698	24 057	12 599	27 634	8 717	6 466	12 400	11 825	23 993	24 144	19 604	19 680	21 337	21 685	13 975	12 769
Architects	20 814	20 904	15 930	27 634	20 116	20 235	14 834	11 825	24 040	24 195	19 604	19 680	21 488	21 772	14 633	12 769
Engineers	20 838	20 838	—	—	20 461	20 461	—	—	26 244	26 472	20 551	29 005	19 023	18 506	25 005	—
Civil engineers	23 616	23 776	21 150	22 685	16 076	16 098	16 005	13 853	23 009	23 163	20 511	29 005	19 023	18 506	25 005	1 365
Electrical and electronic engineers	18 519	18 602	13 231	26 855	20 063	20 178	14 253	7 229	21 364	21 451	18 880	23 684	19 879	20 100	15 423	8 005
Industrial engineers	22 026	22 193	15 431	31 665	19 683	19 708	15 178	14 571	25 960	26 192	17 827	18 660	21 588	20 100	13 240	15 116
Mechanical engineers	23 409	23 593	18 792	—	21 000	21 251	15 178	—	16 702	16 891	20 670	18 660	23 807	24 376	9 446	18 627
Other engineers	20 380	20 323	—	—	30 957	32 569	—	—	22 221	22 366	22 993	16 532	21 989	22 627	14 602	16 779
Surveyors and mapping scientists	18 070	19 186	—	—	22 494	22 643	—	23 914	24 970	25 045	—	—	22 833	22 836	26 770	31 005
Computer systems analysts and scientists	18 070	19 186	—	—	22 494	22 643	—	23 914	24 970	25 045	—	—	22 833	22 836	26 770	31 005
Operations and systems researchers and analysts	20 170	20 849	6 540	11 108	20 207	20 631	8 005	—	23 166	23 160	—	—	17 728	17 199	23 900	—
Mathematical scientists	20 274	20 892	7 052	11 108	21 429	21 988	8 005	—	21 566	21 716	15 617	23 520	20 625	20 700	19 524	—
Natural scientists	29 985	29 985	5 005	11 108	10 185	10 185	—	—	21 825	21 865	19 547	23 520	20 822	20 957	19 524	—
Chemists, except biochemists	29 985	29 985	5 005	11 108	10 185	10 185	—	—	21 825	21 865	19 547	23 520	20 822	20 957	19 524	—
Other natural scientists	12 441	12 431	10 925	14 005	32 336	32 336	—	—	36 430	36 430	10 165	—	28 265	28 265	—	230
Health diagnosing occupations	12 441	12 431	10 925	14 005	32 336	32 336	—	—	36 430	36 430	10 165	—	28 265	28 265	—	230
Health assessment and treating occupations	12 441	12 431	10 925	14 005	32 336	32 336	—	—	36 430	36 430	10 165	—	28 265	28 265	—	230
Registered nurses	12 441	12 431	10 925	14 005	32 336	32 336	—	—	36 430	36 430	10 165	—	28 265	28 265	—	230
Other health assessment and treating occupations	11 410	11 410	—	—	9 285	9 285	—	—	12 419	12 419	—	—	18 626	19 437	21 835	21 005
Teachers, except postsecondary	13 211	13 901	8 382	—	17 196	21 728	10 510	4 658	16 201	18 779	—	17 665	18 696	18 696	21 005	—
Social scientists and urban planners	30 420	30 655	29 915	—	23 207	24 145	—	—	29 350	30 382	—	18 216	24 375	20 085	3 005	—
Social and recreation workers	8 630	7 240	—	—	26 525	26 525	—	—	47 515	47 515	—	—	30 286	30 702	17 653	17 538
Lawyers and judges	11 169	11 469	—	—	25 958	26 876	—	—	43 908	43 908	—	—	30 286	30 702	17 653	17 538
Writers, artists, entertainers, and athletes	17 297	18 654	9 010	12 885	20 003	21 245	12 376	48 005	19 330	19 345	15 152	16 528	17 461	17 461	13 442	18 005
Other professional specialty occupations	17 132	18 221	12 031	—	18 699	19 777	11 288	10 188	20 447	20 447	—	—	13 856	14 559	11 121	2 761
Technical, sales, and administrative support occupations	16 187	17 057	9 743	11 007	17 034	18 930	8 560	8 838	19 656	20 209	13 631	13 288	13 960	14 421	9 254	9 565
Technicians and related support occupations	15 172	15 348	12 739	13 189	14 814	15 103	12 022	13 505	18 383	18 506	16 382	12 794	15 883	16 062	13 944	13 453
Health technicians and technicians	18 418	18 042	18 956	—	4 005	4 005	—	—	17 130	17 130	—	—	21 092	21 092	—	—
Licensed practical nurses	—	—	—	—	4 005	4 005	—	—	17 130	17 130	—	—	21 092	21 092	—	—
Other health technicians and technicians	18 418	18 042	18 956	—	4 005	4 005	—	—	17 130	17 130	—	—	21 092	21 092	—	—
Engineering and science technicians	14 475	14 636	11 903	14 308	14 674	14 938	12 157	12 033	18 029	18 158	16 410	10 004	15 482	15 668	13 698	13 145
Electrical and electronic technicians	15 347	15 906	10 534	12 005	16 286	17 144	12 835	10 134	20 747	20 845	17 530	19 930	15 506	15 600	14 439	14 909
Industrial and mechanical engineering technicians	17 027	17 218	13 558	12 005	15 674	16 393	9 864	13 331	18 516	18 608	16 706	13 240	18 128	18 128	—	—
Drafting and surveying technicians	14 469	14 515	14 253	12 005	15 056	15 390	10 805	12 795	15 592	15 746	16 116	4 107	13 168	13 466	11 538	7 318
Other engineering and science technicians	13 920	14 042	11 376	12 005	14 842	15 169	14 319	12 795	18 125	18 249	16 334	10 346	17 575	17 966	13 536	14 771
Technicians, except health, engineering, and science	16 141	16 330	13 786	11 604	15 025	15 353	11 867	21 305	19 350	19 491	16 332	19 792	16 632	16 804	14 309	14 588
Airplane pilots and navigators	24 393	25 018	—	—	24 448	24 448	—	—	25 971	25 971	—	—	26 042	26 042	—	—
Air traffic controllers and broadcast equipment operators	29 403	29 018	—	—	32 005	32 005	—	—	25 971	25 971	—	—	26 042	26 042	—	—
Computer programmers	15 061	15 100	12 944	12 359	14 718	14 997	10 264	21 305	17 777	17 640	18 915	24 005	16 602	16 750	14 377	15 533
Other technicians, except health, engineering, and science	16 107	16 349	13 945	10 390	14 237	14 511	13 576	—	19 527	19 749	15 710	19 156	16 049	16 219	14 168	15 047

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Textile mill products				Apparel and other finished textile products				Paper and allied products				Printing, publishing, and allied industries			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Technical, sales, and administrative support occupations—Con																
Sales occupations.....	27 968	28 494	14 524	18 848	28 351	28 959	12 526	14 405	26 177	26 553	15 561	22 350	14 654	15 074	7 076	8 620
Supervisors and proprietors, sales occupations.....	25 343	26 859	11 102	14 757	27 072	28 399	10 835	11 300	27 271	27 684	14 605	23 005	20 922	21 193	13 634	25 908
Salaried.....	26 524	28 055	12 031	14 757	27 055	28 413	10 835	11 300	27 179	27 684	14 605	23 005	20 922	21 193	13 634	25 908
Self-employed.....	12 252	11 714	6 805	—	27 246	28 253	10 835	20 005	28 928	28 928	14 605	23 005	20 922	21 193	13 634	25 908
Sales representatives, finance and business services.....	21 118	21 118	—	—	24 528	24 528	—	—	23 773	23 773	955	—	23 155	23 451	13 005	10 955
Sales representatives, commodities, except retail.....	28 515	28 830	16 264	21 951	28 679	29 195	12 736	15 651	26 266	26 606	16 484	22 719	17 609	19 158	8 651	15 287
Sales workers, retail and personal services.....	12 415	12 472	11 829	11 829	12 292	13 491	8 005	3 827	13 261	14 607	4 345	10 005	4 652	4 716	4 199	4 150
Cashiers.....	10 763	9 120	13 305	17 005	5 736	6 673	8 005	3 827	14 286	21 367	7 205	10 005	10 836	11 319	8 573	8 719
Other sales occupations, retail and personal services.....	13 195	14 511	12 332	9 005	15 663	16 398	8 005	3 827	13 096	14 006	55	10 005	4 584	4 645	4 148	3 933
Sales related occupations.....	34 255	—	—	8 005	18 205	18 205	—	—	21 005	21 005	—	—	10 402	10 213	—	—
Administrative support occupations, including clerical.....	11 942	12 496	9 004	9 946	10 006	10 768	8 184	7 909	16 305	16 812	12 822	11 968	12 502	12 952	10 051	9 623
Supervisors, administrative support occupations.....	16 544	16 993	13 287	13 347	15 004	15 990	10 936	11 951	20 454	20 772	16 819	14 686	17 932	18 350	15 093	13 143
Computer equipment operators.....	13 954	14 295	1 005	4 466	11 911	12 552	10 727	11 475	17 039	18 055	13 461	16 081	14 325	14 726	11 526	13 453
Secretaries, stenographers, and typists.....	23 804	24 526	2 005	4 466	16 818	18 570	9 106	10 926	12 668	12 553	13 972	10 926	12 095	12 594	9 579	5 807
Secretaries.....	27 621	28 736	2 005	4 466	18 962	20 683	9 106	12 259	14 318	14 525	5 005	—	13 359	13 838	9 223	7 243
Stenographers and typists.....	9 727	9 727	—	5 005	5 964	6 090	8 113	13 005	9 736	9 736	—	—	11 031	11 458	9 894	7 254
Receptionists.....	6 155	6 155	—	3 525	9 432	9 968	8 113	13 005	9 736	9 736	—	—	9 307	8 250	14 784	6 698
Other information clerks.....	14 865	17 178	5 079	15 705	11 025	11 282	7 772	8 005	19 913	20 215	18 062	8 177	7 810	8 032	6 445	6 378
File clerks.....	14 564	14 879	10 370	6 326	13 726	14 735	7 772	8 109	16 769	17 045	15 912	8 177	11 446	11 959	9 995	10 599
Other records processing occupations, except financial.....	11 105	11 317	9 267	9 326	9 054	10 100	8 346	8 109	14 664	15 128	10 293	9 084	11 157	11 386	9 945	9 695
Bookkeepers, accounting, and auditing clerks.....	14 131	14 475	10 415	12 085	12 636	13 403	8 494	8 494	16 076	16 536	10 629	12 502	12 201	12 426	10 781	11 560
Payroll and timekeeping clerks.....	13 252	13 437	8 005	—	8 450	9 248	2 690	10 401	14 892	15 129	10 850	12 502	14 184	14 697	13 272	14 943
Other financial records processing occupations.....	12 180	13 361	4 489	18 605	9 811	11 486	5 083	7 493	15 476	15 879	15 022	9 005	16 338	17 138	10 539	13 375
Telephone operators.....	6 133	7 170	5 046	—	12 294	20 275	7 005	7 493	13 950	13 950	—	9 005	8 082	9 022	2 351	4 005
Mail and message distributing occupations.....	8 899	9 151	8 415	6 456	5 909	7 469	4 593	4 002	11 234	11 405	11 025	7 417	10 992	11 616	7 810	9 729
Production coordinators and expeditors.....	13 092	13 317	11 267	10 476	13 880	14 784	6 777	11 249	17 472	18 020	12 900	10 183	15 601	15 995	9 743	13 557
Traffic, shipping, and receiving clerks.....	9 372	9 319	8 476	7 993	8 006	8 017	8 328	7 263	13 983	14 345	12 159	11 789	10 474	10 640	10 474	9 479
Stock and inventory clerks.....	9 983	10 566	7 592	7 807	8 580	9 066	6 265	7 382	15 701	16 165	11 124	12 632	11 224	11 434	10 392	8 344
Other material recording, scheduling, and distributing clerks.....	9 953	10 038	9 809	7 363	8 495	9 806	5 955	5 729	16 874	17 042	15 070	13 292	11 699	11 666	11 936	5 999
Adjusters and investigators.....	16 470	17 773	8 400	13 505	14 103	14 206	8 306	7 378	17 726	18 119	12 364	10 758	14 632	15 107	13 319	8 189
Date-entry keyers.....	10 135	10 810	8 077	11 235	6 659	7 046	—	7 167	14 725	15 403	12 151	10 510	15 116	15 116	8 900	16 770
Other administrative support occupations.....	13 186	14 015	7 835	8 878	10 298	10 976	8 306	7 167	17 121	17 650	13 184	12 987	11 321	11 670	9 869	7 337
Service occupations.....	8 865	9 280	7 627	7 419	7 145	7 307	6 775	6 053	14 421	15 026	11 068	10 570	9 460	9 552	9 185	9 133
Private household occupations.....	8 200	8 262	7 701	8 580	7 482	7 442	7 844	7 260	12 771	12 993	10 713	11 482	10 907	10 661	11 923	9 825
Protective service occupations.....	7 869	7 937	7 291	8 580	7 485	7 422	7 844	7 260	12 341	12 563	10 315	11 482	10 654	10 338	11 864	9 825
Guards.....	15 811	15 967	14 725	—	12 505	12 505	—	—	16 345	16 407	15 448	10 520	21 995	22 272	19 005	—
Other protective service occupations.....	9 042	9 617	7 620	7 318	7 070	7 272	6 629	5 960	14 845	15 382	11 132	10 520	9 175	9 323	8 660	9 034
Service occupations, except protective and household.....	10 696	12 640	8 432	8 605	6 659	5 018	8 700	1 522	15 984	18 162	10 494	7 381	10 333	10 024	7 697	17 791
Food preparation and service occupation.....	10 155	7 372	18 505	8 605	6 856	9 856	6 588	6 136	7 415	15 446	11 173	10 510	10 157	9 181	14 305	7 205
Health service occupations.....	9 022	9 603	7 382	7 251	6 956	7 131	3 799	4 691	14 757	20 576	11 505	13 757	9 041	9 202	8 686	8 137
Cleaning and building service occupations, except household.....	9 121	9 479	8 128	13 735	13 843	15 578	—	4 691	19 398	20 576	11 505	13 757	12 837	13 573	13 005	11 658
Personal service occupations.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farming, forestry, and fishing occupations.....	7 940	8 611	6 727	11 182	4 249	4 813	3 102	1 535	13 549	14 516	9 174	5 386	9 292	9 726	3 005	12 505
Precision production, craft, and repair occupations.....	13 814	14 172	11 055	12 158	13 688	14 453	10 379	10 051	20 093	20 424	15 786	15 569	18 568	18 936	14 665	14 571
Mechanics and repairers.....	12 244	12 478	10 696	12 177	11 995	12 326	10 026	9 896	18 867	19 148	15 471	14 957	16 407	16 612	14 603	12 632
Supervisors, mechanics and repairers.....	15 256	15 561	9 281	16 264	17 395	17 211	20 133	16 201	26 423	26 274	30 875	20 922	19 226	19 974	7 184	15 697
Automobile mechanics, including body.....	13 388	13 855	9 139	11 505	12 078	12 712	10 398	7 952	18 109	18 496	11 691	9 926	16 204	15 718	18 301	19 707
Industrial machinery repairers.....	12 073	12 248	10 828	12 414	11 986	12 308	10 119	10 075	17 035	17 297	14 615	13 896	16 390	16 656	13 200	11 407
Electronic repairers, communications and industrial equipment.....	15 458	15 588	14 774	—	9 523	9 523	—	—	19 413	19 327	20 934	19 413	16 980	16 349	17 505	18 005
Heating, air conditioning, and refrigeration mechanics.....	13 055	13 892	8 484	9 875	13 831	13 831	9 343	10 005	19 234	19 261	17 505	16 440	15 509	15 509	—	—
Other mechanics and repairers.....	12 467	12 888	10 171	11 349	11 649	12 023	—	9 343	20 070	20 354	15 924	16 440	16 288	16 523	16 054	11 943
Construction trades.....	13 033	13 422	9 291	10 183	11 846	12 189	8 754	9 681	21 004	21 125	18 996	19 035	17 873	18 247	14 342	13 847
Supervisors, construction occupations.....	17 917	18 275	9 148	7 567	12 875	12 875	6 510	16 005	24 693	24 753	29 055	24 505	22 612	22 294	39 005	16 505
Carpenters.....	10 656	11 307	7 112	7 551	10 972	11 369	6 101	13 906	16 172	16 235	16 588	12 544	12 882	13 710	6 143	12 025
Electricians.....	14 377	14 516	11 347	10 646	14 625	14 843	5 781	8 477	22 113	22 191	20 489	21 019	21 435	21 414	25 029	18 802
Painters, construction and maintenance.....	8 652	8 646	8 258	9 260	6 699	8 869	5 781	8 477	15 863	16 207	14 477	12 443	12 243	12 266	14 683	7 032
Plumbers, pipefitters, and steamfitters.....	14 357	14 571	11 665	10 144	16 707	18 381	9 005	6 445	21 260	21 294	20 218	25 354	18 671	19 032	12 005	20 568
Other construction trades.....	10 724	11 091	9 175	—	10 927	11 214	9 333	7 136	17 242	16 889	19 696	14 565	11 703	13 565	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Textile mill products				Apparel and other finished textile products				Paper and allied products				Printing, publishing, and allied industries			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Precision production, craft, and repair occupations—Con.																
Extraction occupations	12 474	13 245	7 481	7 495	18 280	18 280	10 553	10 086	14 230	13 585	21 005	—	14 750	14 750	—	—
Precision production occupations	15 401	16 019	11 958	12 526	15 219	15 219	10 553	10 086	20 481	19 585	15 219	—	18 959	18 959	—	—
Supervisors, production occupations	15 265	16 094	12 922	12 923	15 219	15 219	10 553	10 086	20 481	19 585	15 219	—	18 959	18 959	—	—
Supervisors, production occupations	15 265	16 094	12 922	12 923	15 219	15 219	10 553	10 086	20 481	19 585	15 219	—	18 959	18 959	—	—
Precision metalworking occupations	15 146	15 872	9 567	9 567	15 357	15 357	9 567	9 567	17 012	16 998	15 112	—	20 834	20 834	—	—
Tool and die makers	15 534	16 372	8 452	8 452	16 389	16 389	15 641	15 641	16 431	16 414	15 641	—	16 568	16 568	—	—
Machinists	11 920	12 333	9 553	9 553	12 235	12 235	9 455	9 455	17 032	16 998	13 233	—	17 673	17 673	—	—
Sheet metal workers	13 441	13 748	6 005	6 005	12 437	12 437	4 455	4 455	17 203	17 118	9 186	—	17 673	17 673	—	—
Other precision metal workers	11 881	12 529	10 189	—	19 500	20 182	11 702	12 933	17 032	17 118	9 186	—	17 673	17 673	—	—
Precision textile, apparel, and furnishings machine workers	9 916	10 668	5 680	8 877	10 713	10 713	8 839	8 839	10 313	10 313	9 186	—	16 131	16 131	—	—
Precision tool production occupations	9 381	9 849	8 487	—	8 048	8 947	4 211	8 208	14 709	14 709	11 095	—	17 732	17 732	—	—
Precision inspectors, testers, and related workers	15 325	18 910	9 150	7 985	6 938	6 938	1 545	1 545	16 404	17 450	11 095	—	15 937	15 937	—	—
Plant and system operators	17 059	17 628	10 621	13 120	18 268	18 268	11 005	—	22 453	22 742	18 564	—	19 631	19 631	—	—
Other precision production occupations	11 178	12 454	7 669	6 793	15 657	15 906	15 465	10 391	15 509	17 097	5 519	—	13 589	13 589	—	—
Operators, fabricators, and laborers	9 561	10 014	8 436	8 531	8 278	8 874	7 526	6 760	14 657	15 210	12 354	—	14 353	14 353	—	—
Machine operators, assemblers, and inspectors	9 760	10 169	8 695	8 716	8 595	9 344	7 526	6 760	14 657	15 210	12 354	—	14 353	14 353	—	—
Machine operators and tenders, except precision	9 729	10 141	8 671	8 640	8 485	9 237	7 526	6 760	14 657	15 210	12 354	—	14 353	14 353	—	—
Metalworking and plastic working machine operators	9 902	10 389	8 050	8 050	8 350	9 336	8 050	8 050	15 246	16 206	12 466	—	14 723	14 723	—	—
Fabricating machine operators, n.e.c.	10 906	12 137	6 223	9 678	8 085	7 285	14 005	6 205	12 978	13 798	9 159	—	14 854	14 854	—	—
Metal and plastic processing and woodworking machine operators	9 866	9 962	9 584	8 190	9 708	10 206	8 614	6 989	13 959	14 159	12 386	—	14 300	14 300	—	—
Printing machine operators	11 143	11 692	8 920	9 188	10 782	11 947	7 514	7 514	14 255	14 600	12 867	—	12 380	12 380	—	—
Textile machine operators	9 711	10 096	8 096	8 831	8 261	9 910	7 910	8 309	15 420	15 989	8 349	—	13 777	13 777	—	—
Textile sewing machine operators	9 565	10 007	9 133	7 404	8 046	8 921	7 127	6 481	12 960	13 211	8 297	—	10 466	10 466	—	—
Laundry and dry cleaning machine operators	10 827	12 273	6 383	9 043	7 012	7 438	6 939	5 494	15 464	16 397	13 429	—	12 194	12 194	—	—
Packaging and filling machine operators	8 714	8 889	8 162	8 347	6 628	6 902	7 191	6 514	13 636	14 037	12 868	—	9 711	9 711	—	—
Engraving, etching, and other operators, except food	12 603	12 615	11 856	15 471	11 711	13 038	9 441	1 005	20 030	20 230	17 935	—	15 247	15 247	—	—
Other specified machine operators	9 395	9 796	8 140	9 333	8 537	9 173	7 220	7 192	13 893	14 312	11 871	—	12 728	12 728	—	—
Miscellaneous and not specified machine operators	9 819	10 315	8 592	9 146	9 260	10 119	8 365	7 815	15 326	15 928	12 949	—	11 948	11 948	—	—
Fabricators, assemblers, and hand working occupations	10 106	10 689	8 414	7 170	9 391	9 927	8 798	6 878	14 286	15 183	10 800	—	11 461	11 461	—	—
Welders and cutters	12 416	12 774	9 202	10 308	13 107	13 767	13 213	7 935	19 087	19 525	13 840	—	12 022	12 022	—	—
Solders and brazers	8 835	9 590	8 231	8 377	11 727	12 727	9 940	15 005	10 923	11 293	9 995	—	16 011	16 011	—	—
Assemblers	9 981	10 575	8 231	6 300	8 612	9 255	8 328	6 276	10 791	11 293	9 995	—	10 704	10 704	—	—
Hand working occupations	9 908	10 251	8 575	8 276	9 436	9 436	8 190	8 504	14 834	15 241	12 044	—	12 473	12 473	—	—
Production inspectors, testers, samplers, and weighers	10 067	10 305	9 287	7 150	9 709	10 464	7 987	7 472	15 630	15 966	13 509	—	12 688	12 688	—	—
Graders and sorters, except agricultural	9 209	8 658	11 017	10 766	10 614	11 848	9 777	13 265	12 737	13 191	12 059	—	4 324	4 324	—	—
Other production inspectors, testers, samplers, and weighers	10 142	10 440	9 102	6 925	9 484	10 174	7 410	6 785	16 089	16 350	14 070	—	13 383	13 383	—	—
Transportation and material moving occupations	10 340	11 079	8 513	9 034	9 140	9 773	8 120	6 793	15 355	15 888	13 133	—	12 025	12 025	—	—
Transportation occupations	13 196	14 540	9 513	8 762	10 704	11 634	9 595	7 531	16 416	17 232	13 278	—	11 787	11 787	—	—
Motor vehicle operators	13 222	14 595	9 502	8 762	10 672	11 594	9 595	7 531	16 350	17 177	13 278	—	11 819	11 819	—	—
Truck drivers	13 364	14 761	9 521	8 662	10 775	11 692	9 772	7 788	16 453	17 242	13 285	—	11 978	11 978	—	—
Over-the-road truck drivers	13 220	13 581	10 876	—	11 037	11 350	9 550	7 324	13 263	13 557	13 928	—	11 698	11 698	—	—
Other motor vehicle operators	9 221	9 935	8 820	9 865	8 231	8 860	7 850	5 321	13 760	15 282	11 750	—	11 695	11 695	—	—
Rail and water transportation occupations	11 638	11 813	10 549	—	20 593	20 593	6 982	—	19 700	19 622	20 587	—	13 829	13 829	—	—
Material moving occupations	8 759	9 061	8 047	9 233	7 726	7 726	6 982	5 764	14 665	15 028	13 026	—	11 705	11 705	—	—
Supervisors, material moving equipment operators	16 093	13 578	22 255	18 005	12 674	13 654	15 005	9 875	21 365	21 424	15 335	—	18 885	18 885	—	—
Crane, hoist and winch operators	11 886	13 132	8 089	—	23 110	23 110	15 005	—	19 043	19 043	19 487	—	15 981	15 981	—	—
Excavating, grading, and dozer machine operators	13 233	13 785	9 764	3 605	8 331	11 945	6 725	5 588	16 607	17 429	12 439	—	19 506	19 506	—	—
Other material moving equipment operators	8 637	8 922	7 966	9 197	7 329	7 564	6 917	5 588	14 117	14 492	12 376	—	11 447	11 447	—	—
Handlers, equipment cleaners, helpers, and laborers	8 370	8 777	7 593	7 316	6 734	6 836	6 843	6 146	12 586	13 111	10 906	—	8 886	8 886	—	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	17 716	17 716	—	—	14 689	14 689	—	—	18 182	18 192	18 005	—	17 194	17 194	—	—
Helpers, craft and production	8 886	9 243	7 997	7 376	5 817	6 228	4 400	6 415	13 683	13 966	11 064	—	9 423	9 423	—	—
Construction laborers	7 319	7 319	5 022	3 933	9 002	9 294	6 798	4 605	13 019	13 146	11 261	—	7 804	7 804	—	—
Freight, stock, and material handlers	8 491	8 858	7 831	8 395	6 798	6 798	6 862	6 571	13 088	13 736	10 359	—	9 368	9 368	—	—
Garage and service station occupations, and equipment	7 269	7 682	6 215	6 820	5 090	5 071	5 461	5 582	13 890	14 227	12 398	—	8 290	8 290	—	—
Deniers	8 191	8 369	8 076	5 888	6 224	6 118	6 460	5 773	10 907	11 655	8 308	—	7 784	7 784	—	—
Hand packers and packagers	8 310	8 850	7 249	7 348	7 217	7 216	7 719	6 432	12 517	12 955	11 170	—	8 596	8 596	—	—
Laborers, except construction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Textile mill products			Apparel and other finished textile products			Paper and allied products			Printing, publishing, and allied industries		
	Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹
	Total	White		Total	White		Total	White		Total	White	
United States												
Employed females 16 years and over	7 569	7 724	7 178	6 112	6 206	5 833	5 443	9 856	9 892	8 554	8 279	7 373
Managerial and professional specialty occupations	12 073	12 220	10 512	13 177	12 846	10 218	10 293	14 122	14 201	13 078	11 064	10 657
Executive, administrative, and managerial occupations	12 216	12 292	11 633	12 260	12 980	10 114	10 770	14 419	14 575	12 926	11 323	10 657
Officials and administrators, public administration	—	—	—	—	—	—	—	—	—	—	—	—
Financial managers	13 770	13 485	21 182	16 005	14 957	10 972	16 182	17 149	17 232	14 139	—	—
Managers, marketing, advertising, and public relations	14 350	14 474	17 796	19 436	16 087	30 278	5 967	16 622	16 693	14 843	12 590	12 208
Administrators, education and related fields	13 282	13 282	—	—	17 179	—	—	3 005	3 005	—	12 114	12 242
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	11 369	—
Other specified managers	12 747	13 077	8 860	—	11 972	10 882	9 489	15 888	16 051	16 505	15 125	8 149
Managers and administrators, n.e.c.	12 944	13 058	11 867	11 474	13 686	14 073	11 181	16 018	16 297	12 166	14 994	10 196
Salaries	13 527	13 666	12 027	11 114	14 481	10 576	11 482	16 210	16 469	12 166	13 442	10 258
Self-employed	7 300	7 216	5 235	15 005	9 415	10 184	10 184	7 394	8 042	—	8 477	9 652
Management related occupations	10 683	10 734	9 785	10 091	10 334	8 889	9 754	12 680	12 711	12 599	11 544	9 807
Accountants and auditors	10 474	10 810	8 810	7 505	10 098	10 605	9 205	12 245	12 151	13 421	11 236	11 941
Personnel, training, and labor relations specialists	10 803	10 939	11 179	7 075	9 858	10 556	10 065	13 749	14 230	9 795	12 565	12 832
Buyers and purchasing agents	10 770	10 782	10 338	—	11 557	11 710	9 752	12 015	12 026	11 456	11 045	11 143
Inspectors and compliance officers	5 985	5 488	7 825	—	7 359	8 741	3 871	10 557	10 120	13 005	10 366	11 345
Other management related occupations	12 420	12 420	—	20 005	11 326	6 425	10 005	15 350	15 397	17 095	11 688	8 172
Professional specialty occupations	11 832	12 097	8 996	14 472	12 563	10 389	9 363	13 312	13 181	13 493	10 215	10 879
Engineers, architects, and surveyors	11 310	11 466	7 393	10 842	10 520	10 394	12 835	13 376	13 376	16 816	12 142	10 140
Architects	—	—	—	—	—	—	—	—	—	—	—	—
Engineers	11 310	11 466	7 393	10 842	10 520	10 394	12 835	13 376	13 376	16 816	12 142	10 140
Civil engineers	—	—	—	—	—	—	—	—	—	—	—	—
Electrical and electronic engineers	6 220	6 220	—	—	115	115	—	10 505	10 505	—	6 055	—
Industrial engineers	11 240	11 371	7 735	13 805	23 145	10 380	23 145	14 994	14 994	—	—	—
Mechanical engineers	12 926	12 926	—	—	10 065	10 065	9 742	13 378	13 534	—	11 812	18 140
Other engineers	12 103	12 603	5 205	5 285	11 955	10 413	16 091	14 624	13 690	16 816	21 005	—
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	16 419	—
Computer systems analysts and scientists	16 550	16 343	—	18 325	15 310	14 744	19 005	16 288	15 954	18 725	14 010	—
Operations and systems researchers and analysts	17 093	17 093	—	—	12 227	12 227	5 305	12 856	12 856	—	13 693	—
Mathematical scientists	8 478	8 478	—	—	6 505	6 505	—	14 405	14 405	—	11 544	—
Natural scientists	13 663	14 242	12 703	6 005	8 890	2 147	—	14 874	15 297	13 329	12 752	15 085
Chemists, except biochemists	13 907	14 646	12 703	6 005	8 890	2 147	—	15 532	15 991	13 422	16 447	15 085
Other natural scientists	11 041	11 041	—	—	—	—	—	13 639	13 117	12 869	16 256	—
Health diagnosing occupations	53 005	53 005	—	—	20 005	20 005	—	13 707	13 948	8 433	6 876	—
Health assessment and treating occupations	11 554	11 531	12 426	—	10 568	10 150	20 005	13 707	13 948	8 433	12 121	—
Registered nurses	11 556	11 533	12 426	—	11 435	11 011	20 005	13 707	13 948	8 433	12 055	—
Other health assessment and treating occupations	11 325	11 325	—	—	2 905	2 905	—	—	—	—	13 218	—
Teachers, except postsecondary	9 863	10 072	8 977	6 505	8 140	7 337	8 058	10 013	10 013	—	13 011	—
Social scientists and urban planners	16 900	16 900	—	—	12 918	12 279	—	18 943	17 424	40 965	12 380	8 522
Social and recreation workers	11 505	11 505	—	—	—	—	—	3 541	2 344	6 105	12 380	—
Lawyers and judges	55 755	55 755	—	51 510	39 941	43 247	—	25 428	24 147	—	7 574	—
Writers, artists, entertainers, and athletes	12 147	12 452	9 198	11 789	13 455	13 575	9 517	10 450	10 430	7 841	16 839	8 425
Other professional specialty occupations	7 602	7 963	6 518	—	9 200	9 756	4 005	14 213	13 813	18 364	10 999	10 960
Technical, sales, and administrative support occupations	8 633	8 692	8 168	7 385	7 891	8 005	6 841	10 138	10 189	9 765	7 553	6 881
Technicians and related support occupations	9 708	9 739	9 875	4 510	11 587	11 932	9 452	12 419	12 367	12 366	10 066	7 421
Health technologists and technicians	9 234	9 011	11 025	—	5 524	4 304	6 128	15 038	15 038	—	8 886	—
Licensed practical nurses	9 068	9 040	9 055	—	6 941	7 505	6 465	16 320	16 320	—	7 873	—
Other health technologists and technicians	9 493	8 959	11 785	—	3 133	1 458	5 285	12 523	12 523	—	9 493	—
Engineering and science technicians	9 572	9 583	9 731	4 369	11 959	12 259	11 152	11 848	11 900	11 421	8 679	8 679
Electrical and electronic technicians	10 015	9 590	12 505	—	12 943	12 943	—	11 321	11 321	—	8 787	8 296
Industrial and mechanical engineering technicians	9 446	9 644	8 516	—	7 159	6 985	4 974	15 368	15 444	14 679	9 901	8 799
Drafting and surveying technicians	10 973	11 271	9 810	—	12 697	13 328	19 699	9 279	9 025	10 463	13 287	8 555
Other engineering and science technicians	9 527	9 837	4 369	4 369	12 679	13 063	6 956	11 520	11 596	10 840	9 771	9 621
Technicians, except health, engineering, and science	10 400	10 541	10 620	10 005	11 313	11 545	8 465	13 594	13 249	15 968	11 211	6 538
Airplane pilots and navigators	—	—	—	—	—	—	—	—	—	—	—	—
Air traffic controllers and broadcast equipment operators	9 781	9 781	—	—	15 705	—	—	9 405	8 605	10 005	8 607	8 338
Computer programmers	10 777	10 980	10 555	—	11 517	11 728	8 658	13 597	13 231	17 714	12 066	7 595
Other technicians, except health, engineering, and science	10 100	10 187	10 653	10 005	10 648	11 115	7 695	13 722	13 333	19 754	10 491	6 211

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Textile mill products				Apparel and other finished textile products				Paper and allied products				Printing, publishing, and allied industries			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations.....	8 805	8 928	6 478	6 737	8 453	8 735	5 684	5 279	11 626	11 661	11 191	9 712	6 978	6 995	6 985	6 443
Supervisors and proprietors, sales occupations.....	10 422	10 663	6 250	7 286	11 324	10 988	15 400	7 501	12 043	11 901	—	11 205	7 455	7 325	12 359	6 866
Salaries.....	10 618	10 890	6 250	7 286	11 484	11 138	15 400	7 072	12 043	11 901	—	11 205	7 346	7 225	12 359	6 866
Self-employed.....	1 380	255	—	—	9 471	9 320	12 005	12 005	—	—	—	—	9 650	9 632	—	—
Sales representatives, finance and business services.....	10 473	10 473	—	—	9 357	9 081	12 005	—	13 273	13 273	—	9 593	10 248	10 302	9 791	8 905
Sales representatives, commodities, except retail.....	8 779	8 864	7 286	6 527	8 280	8 642	4 947	4 760	11 778	11 827	11 379	9 593	8 503	8 503	—	—
Sales workers, retail and personal services.....	7 516	7 936	3 462	8 405	5 422	5 565	5 532	6 158	9 336	9 390	6 935	—	3 557	3 512	4 392	4 026
Cashiers.....	7 676	8 240	3 462	8 405	5 330	5 512	5 463	6 015	11 230	11 431	6 935	—	6 987	6 807	8 282	7 735
Other sales occupations, retail and personal services.....	6 892	6 892	—	—	6 270	6 018	9 005	6 015	7 492	7 492	—	—	3 382	3 355	3 939	3 198
Sales related occupations.....	—	—	—	—	4 656	4 621	—	—	—	—	—	—	9 979	9 979	—	—
Administrative support occupations, including clerical.....	8 529	8 590	8 019	7 590	7 733	7 818	7 213	6 925	9 900	9 958	9 490	8 772	7 637	7 635	7 790	6 951
Supervisors, administrative support occupations.....	11 912	12 016	10 614	10 941	10 523	10 661	9 566	8 384	13 874	13 927	13 539	7 676	12 086	12 052	12 854	10 372
Computer equipment operators.....	8 916	8 913	9 308	8 316	8 743	8 595	10 069	8 462	10 095	10 110	10 235	12 838	8 667	8 594	9 547	7 963
Secretaries, stenographers, and typists.....	8 911	8 941	8 433	8 826	8 067	8 148	7 624	7 261	10 084	10 142	10 146	7 719	7 767	7 771	8 155	7 090
Secretaries.....	9 140	9 149	8 921	8 939	8 303	8 379	7 668	7 661	10 333	10 383	10 146	7 719	8 551	8 569	8 738	7 603
Stenographers and typists.....	7 147	7 222	6 960	7 339	6 451	6 348	5 461	5 461	8 016	8 063	8 834	5 470	5 942	5 784	7 408	6 045
Receptionists.....	6 788	6 837	6 642	6 402	6 248	6 234	5 801	5 946	7 563	7 596	8 063	5 765	5 962	5 918	6 808	4 944
Other information clerks.....	8 316	7 678	10 991	9 090	7 018	6 947	8 947	9 135	8 748	8 748	9 135	12 288	5 548	5 589	5 093	5 369
File clerks.....	7 804	7 894	7 002	6 598	6 337	6 325	6 385	6 454	8 287	8 338	5 962	7 562	6 154	6 086	6 679	6 018
Other records processing occupations, except financial.....	8 299	8 350	8 320	6 758	7 223	7 400	6 888	6 877	10 148	10 057	11 720	5 717	7 517	7 478	7 980	6 322
Bookkeepers, accounting, and auditing clerks.....	8 907	8 964	8 330	7 482	8 963	8 986	8 920	8 442	9 816	9 866	9 652	9 027	8 311	8 309	8 005	8 325
Payroll and timekeeping clerks.....	8 907	8 950	8 268	7 342	7 866	7 720	8 132	8 972	10 165	10 120	11 248	12 187	10 003	10 062	9 940	10 911
Other financial records processing occupations.....	8 083	8 284	6 242	6 798	6 908	7 143	5 947	5 384	9 333	9 513	8 768	5 420	7 631	7 589	8 580	6 319
Telephone operators.....	7 741	7 995	5 460	5 556	7 236	7 394	6 063	6 063	8 933	8 510	5 082	9 156	6 628	6 578	7 300	5 345
Mail and message distributing occupations.....	6 632	6 685	8 540	4 835	6 043	6 183	6 244	5 778	6 913	6 870	7 505	10 055	5 943	5 500	5 288	5 792
Production coordinators and expeditors.....	8 727	8 857	8 440	10 005	8 009	8 139	7 299	5 560	10 653	10 730	7 234	12 559	9 180	9 222	8 593	7 734
Traffic, shipping, and receiving clerks.....	7 466	7 394	6 598	6 515	6 178	6 227	5 850	6 017	10 013	10 031	9 234	8 077	7 465	7 413	7 843	6 915
Stock and inventory clerks.....	8 008	8 024	7 956	7 613	6 790	6 713	7 929	5 242	10 222	10 412	8 117	9 959	7 579	7 438	9 342	6 410
Other material recording, scheduling, and distributing clerks.....	7 761	7 904	6 794	8 336	6 676	6 036	5 482	6 075	9 752	10 196	6 984	13 285	7 694	7 505	6 644	5 000
Adapters and investigators.....	9 564	9 812	7 409	10 837	8 635	8 785	5 482	12 896	11 526	11 790	8 005	8 431	8 363	8 363	8 632	8 661
Date-entry keyers.....	8 360	8 295	8 588	8 001	7 466	7 262	8 342	7 278	9 434	9 459	9 595	10 965	8 056	8 010	7 774	7 891
Other administrative support occupations.....	7 971	8 048	7 442	6 279	7 068	7 177	6 718	6 197	9 212	9 215	8 535	15 004	6 702	6 705	6 836	6 017
Service occupations.....	6 315	6 387	6 290	5 304	5 195	5 388	5 010	4 540	8 878	9 620	6 851	6 795	6 418	6 239	6 921	6 770
Private household occupations.....	—	—	—	—	6 094	6 673	5 269	2 805	10 200	11 312	663	—	10 125	9 875	—	—
Protective service occupations.....	7 194	7 039	9 190	6 521	5 771	6 218	5 269	2 805	10 200	11 312	663	—	10 152	9 875	10 415	8 845
Guards.....	—	—	—	—	10 205	10 205	5 004	4 557	8 721	9 370	7 083	6 795	9 005	9 005	9 005	6 696
Other protective service occupations.....	6 275	6 331	6 270	5 196	5 173	5 355	5 004	4 557	8 721	9 370	7 083	6 795	9 005	9 005	9 005	6 696
Food preparation and service occupation.....	6 992	6 040	8 394	7 085	5 520	5 158	7 708	4 926	7 393	7 987	6 479	6 802	6 168	6 053	6 501	6 696
Health service occupations.....	9 740	10 097	5 005	11 965	5 692	5 944	5 760	6 868	11 282	10 603	20 005	—	9 254	9 254	6 375	4 272
Cleaning and building service occupations, except household.....	6 094	6 114	6 138	4 519	4 583	4 504	4 819	4 669	8 833	9 568	7 035	6 795	5 718	5 304	6 638	6 762
Personal service occupations.....	6 434	7 508	4 711	—	7 580	7 922	5 304	3 239	8 935	8 935	—	—	7 220	7 691	5 671	9 105
Farming, forestry, and fishing occupations.....	5 178	5 178	—	—	5 157	6 241	—	1 659	10 268	11 018	9 261	—	5 855	4 568	9 763	—
Mechanics production, craft, and repair occupations.....	8 960	9 174	8 154	6 555	7 778	8 010	7 082	6 685	11 363	11 566	10 472	8 884	9 357	9 345	9 785	8 088
Mechanics and repairers.....	8 413	8 483	8 247	5 198	7 372	6 943	10 839	5 596	11 074	11 066	11 472	11 912	7 868	7 890	7 708	9 409
Supervisors, mechanics and repairers.....	11 385	11 385	—	—	8 339	8 077	8 782	3 005	1 205	1 205	—	—	17 345	17 345	5 935	—
Automobile mechanics, including body.....	6 097	6 097	—	—	5 367	5 403	845	4 708	10 116	10 323	7 808	9 005	7 648	8 504	5 935	—
Industrial machinery repairers.....	8 962	8 956	8 938	7 955	7 149	6 853	10 017	4 708	10 116	10 323	7 808	9 005	7 954	7 731	8 511	9 265
Electronic repairers, communications and industrial equipment.....	—	—	—	—	7 005	7 005	—	7 005	15 148	14 005	16 005	—	5 919	5 919	—	—
Heating, air conditioning, and refrigeration mechanics.....	8 224	8 224	—	—	7 511	6 997	11 811	6 230	13 231	12 892	16 643	15 584	7 810	8 040	6 915	9 438
Other mechanics and repairers.....	7 395	7 612	6 814	2 772	7 511	6 997	11 811	6 230	13 231	12 892	16 643	15 584	7 810	8 040	6 915	9 438
Construction trades.....	7 485	7 580	7 151	7 527	5 210	5 119	6 364	3 776	12 438	12 200	16 005	17 431	7 578	7 466	8 821	5 113
Supervisors, construction occupations.....	7 273	7 043	8 595	—	12 730	12 495	14 005	—	11 764	11 764	—	—	12 146	17 005	7 402	8 245
Carpenters.....	7 269	7 718	6 190	—	4 891	3 283	6 959	—	11 945	12 534	15 005	15 005	8 946	7 602	10 718	8 245
Electricians.....	6 153	6 153	—	—	9 625	9 625	—	4 015	10 362	10 362	—	—	6 406	6 406	8 005	3 116
Painters, construction and maintenance.....	6 184	6 184	—	—	3 863	3 851	5 263	—	20 437	22 505	16 005	—	24 960	24 960	—	—
Plumbers, pipefitters, and steamfitters.....	9 957	10 880	—	8 338	1 643	1 313	2 305	—	9 101	7 619	—	—	4 954	5 250	—	—
Other construction trades.....	7 722	7 738	8 012	6 005	4 425	4 400	6 005	3 621	9 101	7 619	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Textile mill products				Apparel and other finished textile products				Paper and allied products				Printing, publishing, and allied industries			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over—Con																
Precision production, craft, and repair occupations—Con																
Extraction occupations	7 612	8 683	7 709	—	12 681	12 681	—	—	9 342	9 342	—	—	9 525	9 525	—	—
Precision production occupations	9 156	9 391	8 180	7 089	7 799	7 799	6 962	6 714	11 407	11 690	10 100	7 342	9 417	9 401	9 911	8 094
Supervisors, production occupations	10 095	10 288	9 227	7 810	8 894	9 021	8 291	7 860	12 184	12 474	10 431	7 817	11 535	11 462	12 312	9 309
Precision production occupations	8 299	8 126	8 816	6 811	8 610	8 983	5 789	7 719	9 448	9 214	10 431	8 471	7 012	7 303	6 027	8 335
Tool and die makers	7 805	7 805	—	—	6 005	6 005	—	—	11 515	11 474	12 005	—	9 267	9 267	—	—
Machinists	7 722	7 036	8 937	6 811	6 321	6 234	5 414	8 180	9 130	8 740	10 391	7 764	7 485	8 902	5 902	11 808
Sheet metal workers	10 241	9 861	10 675	—	6 028	6 028	8 005	—	10 108	10 108	—	3 005	13 765	13 765	—	13 765
Other precision machine workers	9 244	9 415	6 218	—	10 296	10 734	6 005	7 106	10 403	10 060	—	3 005	6 800	6 927	6 174	5 075
Precision textile, apparel, and furnishings machine workers	6 500	6 552	6 313	5 805	5 932	6 084	5 766	—	7 833	7 833	—	5 905	5 003	4 549	6 366	—
Precision food production occupations	8 063	9 040	5 295	—	4 345	5 509	4 542	4 338	8 758	9 233	—	—	7 303	6 686	9 155	—
Precision inspectors, testers, and related workers	7 218	7 251	7 095	—	6 217	7 256	5 313	2 095	12 242	13 386	—	7 435	8 965	8 965	—	—
Plant and system operators	7 721	7 468	9 076	805	9 234	9 504	2 385	11 125	9 892	9 614	5 675	14 635	8 913	9 748	325	—
Other precision production occupations	7 685	7 648	7 398	10 422	9 346	9 303	7 436	—	7 273	7 911	—	4 657	7 684	7 586	8 773	7 428
Operators, fabricators, and laborers																
Machine operators, assemblers, and inspectors	7 117	7 190	7 080	5 766	5 656	5 745	5 646	5 143	8 694	8 933	8 035	6 902	7 090	7 012	8 018	6 835
Machine operators and helpers, except precision	7 139	7 231	7 034	5 765	5 660	5 750	5 649	5 154	8 721	8 962	7 147	7 147	7 234	7 148	8 267	7 043
Machine operators and helpers, except precision	7 131	7 220	7 040	5 779	5 623	5 717	5 593	5 145	8 750	9 043	7 780	7 275	7 222	7 160	8 043	7 011
Machine operators and helpers, except precision	7 344	7 518	7 210	6 365	7 649	7 953	6 717	7 123	9 156	9 721	6 149	8 418	7 418	7 507	7 661	5 365
Fabricating machine operators, n.e.c.	6 142	6 033	6 973	6 435	5 239	5 180	5 107	4 990	9 279	9 336	8 134	—	6 761	6 786	6 005	—
Metal and plastic processing and woodworking machine operators	6 587	6 647	5 760	8 441	5 869	5 973	5 686	5 835	10 547	10 868	8 906	9 160	7 579	7 312	11 570	7 059
Printing machine operators	6 314	6 479	5 693	6 281	5 894	5 887	5 781	4 851	9 527	10 030	6 599	7 374	7 438	7 344	8 694	7 087
Textile machine operators	7 489	7 580	7 337	6 097	6 115	6 183	6 199	5 165	10 026	10 097	10 245	5 573	6 097	5 955	7 000	5 588
Textile sewing machine operators	6 226	6 338	6 094	5 519	5 597	5 690	5 553	5 153	7 904	7 829	9 235	6 831	6 917	7 019	7 211	5 368
Laundry and dry cleaning machine operators	6 385	5 623	—	—	4 723	5 240	5 257	3 362	10 023	10 023	—	—	3 518	3 548	795	—
Packaging and filling machine operators	6 519	6 670	6 175	2 316	5 515	5 655	4 824	4 725	9 067	9 288	8 584	7 772	7 762	6 076	4 705	4 869
Furnace, kiln, and oven operators, except food	7 688	7 099	9 125	—	7 017	7 238	5 505	5 505	10 296	10 162	10 637	7 217	7 762	6 076	12 005	—
Other specified machine operators	6 538	6 846	5 734	4 655	5 366	5 679	5 493	5 295	8 283	8 863	6 944	7 217	6 725	6 637	8 405	9 232
Miscellaneous and not specified machine operators	7 404	7 440	7 446	5 919	5 985	6 048	6 113	5 295	8 727	8 995	7 870	6 244	6 897	6 918	7 025	6 403
Fabricators, assemblers, and hand working occupations																
Welders and cutters	6 177	6 270	6 117	4 377	5 943	6 220	5 672	5 133	6 995	7 158	6 510	6 129	6 156	5 957	7 212	6 287
Solders and brazers	7 569	8 094	5 778	7 205	7 728	8 714	2 516	4 820	10 699	11 717	6 216	2 945	5 876	6 338	6 905	—
Solders and brazers	7 438	7 438	—	2 605	5 401	6 754	2 513	7 205	5 213	2 005	6 216	—	5 939	5 939	—	6 988
Assemblers	6 158	6 275	6 071	4 457	6 042	6 238	5 174	5 288	6 911	7 066	6 480	6 197	6 229	6 027	7 216	—
Hand working occupations	5 936	5 837	6 638	2 685	5 515	6 046	5 174	4 433	7 587	7 639	6 916	4 449	5 607	5 373	7 210	5 435
Production inspectors, testers, samplers, and weighers	7 340	7 430	7 111	6 107	6 149	6 107	6 559	5 415	10 080	10 033	10 737	7 841	8 450	8 149	10 748	8 523
Graders and sorters, except agricultural	7 031	7 302	5 972	6 662	5 466	5 371	5 791	4 765	11 801	10 320	19 199	6 511	6 997	6 122	5 362	7 544
Other production inspectors, testers, samplers, and weighers	7 366	7 441	7 224	6 077	6 186	6 146	6 593	5 454	9 856	9 998	9 271	7 976	8 771	8 421	11 268	8 618
Transportation and material moving occupations																
Transportation occupations	7 257	7 314	7 693	5 596	5 663	5 725	6 044	4 914	10 696	11 094	8 910	7 250	5 514	5 451	6 479	4 893
Motor vehicle operators	8 768	8 970	7 354	11 659	9 085	9 236	10 483	7 784	10 332	12 031	6 470	7 815	4 609	4 578	4 892	6 275
Motor vehicle operators	8 524	8 641	7 433	14 005	9 476	9 476	12 701	7 784	10 321	11 668	6 470	7 815	4 609	4 578	4 892	6 275
Truck drivers	8 876	8 283	7 433	—	10 252	10 684	9 025	—	10 221	11 926	6 470	7 815	4 553	4 588	4 028	5 130
Diver-sales workers	8 594	8 594	—	—	4 122	2 236	3 195	—	8 805	8 805	—	—	4 950	4 920	5 768	7 511
Other motor vehicle operators	6 216	5 036	6 655	14 005	6 384	5 005	3 195	—	13 797	14 305	6 005	—	4 458	4 164	7 347	—
Rail and water transportation occupations	11 449	12 699	9 036	10 355	6 384	5 305	3 195	4 828	10 498	10 664	6 005	7 180	7 083	7 005	8 423	3 872
Material moving equipment operators	7 092	7 092	—	5 340	5 368	5 661	5 649	12 005	12 005	12 005	9 929	7 180	4 505	4 505	—	—
Supervisors, material moving equipment operators	7 905	7 905	—	—	10 837	10 837	—	—	12 325	12 325	11 095	—	11 005	11 005	—	—
Crane, hoist, and winch operators	11 272	10 391	9 938	—	6 005	6 005	—	—	4 347	3 005	6 075	—	—	—	—	—
Excavating, grading, and dozer machine operators	8 272	6 338	7 603	5 340	6 063	5 683	5 649	4 802	10 744	10 951	9 949	7 180	7 082	7 004	8 423	3 874
Other material moving equipment operators	7 029	7 079	—	—	5 535	5 622	—	—	—	—	—	—	—	—	—	—
Handlers, equipment cleaners, helpers, and laborers																
Supervisors, handlers, equipment cleaners, and laborers	6 803	6 638	7 612	5 836	5 567	5 638	5 525	4 955	8 376	8 583	8 051	6 312	6 385	6 327	6 976	6 030
n.e.c.	10 406	10 442	9 505	—	8 828	8 726	9 005	—	—	—	—	—	6 765	6 765	—	—
Helpers, craft and production	6 833	6 420	7 008	6 037	4 998	5 145	4 908	5 392	9 814	10 148	8 536	8 614	6 920	8 392	6 216	—
Construction laborers	7 637	8 853	7 005	—	5 705	6 297	1 985	—	8 801	8 801	—	—	1 737	1 737	—	—
Freight, stock, and material handlers	6 928	6 776	7 431	7 097	5 650	5 722	5 149	5 112	9 035	9 347	8 383	6 553	7 106	7 084	7 626	7 563
Garage and service station occupations, and equipment cleaners	6 696	6 674	6 678	7 527	5 952	5 240	6 593	6 750	10 046	8 581	14 842	5 891	5 891	5 006	7 247	—
Hand packers and packagers	7 111	6 719	9 561	5 240	5 566	5 561	5 451	4 986	8 121	8 359	7 903	5 787	6 559	6 566	6 560	5 899
Laborers, except construction	6 325	6 399	6 210	6 398	5 513	5 709	5 398	4 522	8 547	8 630	8 009	7 633	5 968	5 897	7 043	5 975

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Cont.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States	Chemicals and allied products				Rubber and miscellaneous plastics products			Other nondurable goods				Lumber and wood products, except furniture			
	Race			Spanish origin ¹	Race			Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black	Total	White	Black		Total	White	Black	
Employed males 16 years and over	20 667	21 547	14 373	13 972	16 718	17 380	12 436	10 832	19 060	19 991	13 723	13 312	14 240	7 809	10 208
Managerial and professional specialty occupations	30 646	31 232	20 476	25 433	28 142	28 428	19 809	19 598	31 959	32 424	21 768	26 930	27 290	13 883	19 984
Executive, administrative, and managerial occupations	33 908	34 412	21 990	26 705	30 166	30 483	19 007	19 968	33 789	34 303	21 263	27 814	28 194	13 935	20 938
Officials and administrators, public administration	42 005	42 005	—	—	24 005	24 005	—	—	—	—	—	21 685	21 685	—	—
Financial managers	31 937	32 276	23 626	31 325	28 843	29 019	17 514	19 327	33 921	33 921	19 585	34 512	29 951	54 329	17 783
Managers, marketing, advertising, and public relations	34 787	34 996	27 378	30 330	31 533	31 744	23 905	24 230	34 871	34 871	29 020	28 970	28 944	23 479	26 809
Administrators, education and related fields	30 579	31 287	15 005	46 005	10 821	15 654	1 155	—	22 005	22 005	—	19 530	19 530	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	32 717	33 279	23 714	24 440	25 082	25 263	20 017	16 786	30 311	30 019	35 537	23 745	24 055	11 707	15 537
Managers and administrators, n.e.c.	37 146	37 678	27 766	27 766	33 261	33 261	21 469	21 444	38 482	39 192	19 113	31 439	29 728	10 971	22 023
Salaries	37 394	37 934	22 822	27 984	33 266	33 593	21 469	4 288	39 012	39 736	19 181	32 733	31 761	15 363	22 500
Self-employed	23 776	23 642	17 212	20 303	21 785	22 330	—	—	19 953	19 953	10 005	21 324	21 655	13 708	20 489
Management related occupations	24 421	24 780	19 418	21 092	20 656	20 803	15 049	15 199	24 774	25 096	20 127	23 404	20 340	9 304	16 540
Accountants and auditors	27 848	28 152	18 630	21 327	19 305	20 681	17 309	15 934	23 730	23 993	19 638	23 861	22 386	9 469	33 185
Personnel, training, and labor relations specialists	26 121	26 432	21 000	17 736	19 718	19 718	15 399	11 661	23 858	26 610	19 835	23 858	19 977	11 331	14 808
Buyers and purchasing agents	22 186	21 374	17 114	10 805	19 718	19 718	15 399	11 661	23 858	26 610	19 835	23 858	19 977	11 331	14 808
Inspectors and compliance officers	20 916	21 374	17 114	10 805	19 718	19 718	15 399	11 661	23 858	26 610	19 835	23 858	19 977	11 331	14 808
Other management related occupations	34 072	34 768	18 552	32 824	28 954	27 995	20 005	23 349	30 887	31 434	19 894	30 689	25 048	22 365	6 015
Professional specialty occupations	26 389	26 898	18 747	23 519	23 178	23 271	21 492	18 437	28 475	28 801	22 998	19 548	21 322	13 428	14 382
Engineers, architects, and surveyors	26 708	27 117	19 110	23 536	23 117	23 197	21 894	19 502	28 135	28 400	20 729	24 417	22 060	16 457	14 382
Architects	25 480	25 510	19 110	23 536	23 117	23 197	21 894	19 502	28 135	28 400	20 729	24 417	22 060	16 457	14 382
Engineers	26 716	27 124	19 153	23 653	23 115	23 195	21 894	19 502	28 135	28 400	20 729	24 417	22 060	16 457	14 382
Civil engineers	26 599	27 043	19 065	23 653	23 115	23 195	21 894	19 502	28 135	28 400	20 729	24 417	22 060	16 457	14 382
Electrical and electronic engineers	25 123	25 615	19 015	17 321	24 399	24 442	24 979	18 088	27 680	28 634	22 991	23 274	22 344	22 713	29 003
Mechanical engineers	23 913	24 225	19 815	19 524	20 754	20 752	21 468	14 510	23 390	23 403	16 990	17 178	24 788	24 656	—
Industrial engineers	25 819	26 158	18 752	25 913	23 644	23 744	23 550	25 546	25 288	25 755	9 245	24 559	19 505	11 185	13 909
Other engineers	27 377	27 809	19 350	24 804	23 644	23 744	23 550	25 546	25 288	25 755	9 245	24 559	19 505	11 185	13 909
Surveyors and mapping scientists	15 159	20 005	11 005	—	18 005	18 005	—	—	10 205	10 205	—	24 960	23 695	15 605	20 177
Computer systems analysts and scientists	24 854	25 055	21 713	21 713	24 192	23 948	30 005	—	26 702	26 759	24 665	15 138	21 728	13 005	17 005
Operations and systems researchers and analysts	24 854	25 314	18 818	35 340	23 343	23 982	—	26 445	27 856	28 147	31 410	24 465	26 266	22 736	—
Mathematical scientists	27 368	27 700	18 810	21 917	21 333	21 333	—	—	25 816	26 575	18 005	24 170	26 266	22 736	—
Natural scientists	23 515	23 955	17 891	19 785	22 857	23 107	16 802	17 166	27 571	27 571	21 683	8 837	24 170	30 001	16 005
Chemists, except biochemists	23 190	23 616	18 036	20 439	22 204	22 376	16 802	18 645	25 708	26 181	20 605	8 837	24 170	30 001	16 005
Other natural scientists	25 351	25 785	16 027	11 802	32 979	34 187	—	2 375	31 756	31 741	33 005	8 837	24 170	30 001	16 005
Health diagnosing occupations	47 094	48 147	30 966	65 689	49 461	49 461	—	—	55 765	55 765	—	19 714	19 856	8 411	20 151
Health assessment and treating occupations	23 914	25 214	8 746	30 766	17 953	17 953	—	—	16 219	16 219	—	72 005	72 005	—	—
Registered nurses	28 307	28 307	—	—	17 953	17 953	—	—	16 219	16 219	—	72 005	72 005	—	—
Other health assessment and treating occupations	23 359	24 696	8 746	21 148	17 953	17 953	—	—	16 219	16 219	—	72 005	72 005	—	—
Teachers, except postsecondary	20 489	20 709	18 532	15 068	19 524	21 456	—	—	22 705	22 526	26 935	15 138	21 728	13 005	17 005
Social scientists and urban planners	33 297	33 663	18 594	20 716	27 257	26 289	14 005	18 655	34 840	34 757	47 505	24 465	26 266	22 736	—
Social and recreation workers	33 259	34 039	18 594	20 716	27 257	26 289	14 005	18 655	34 840	34 757	47 505	24 465	26 266	22 736	—
Lawyers and judges	49 946	50 453	37 010	57 440	46 377	46 611	43 005	12 005	10 224	10 224	—	8 405	8 405	—	—
Writers, artists, entertainers, and athletes	24 994	25 383	16 581	15 375	20 167	20 263	21 581	12 749	23 866	24 122	22 764	16 484	17 792	7 719	12 315
Other professional specialty occupations	26 535	27 810	15 016	21 755	15 225	15 035	16 005	—	15 924	15 924	—	9 037	9 037	—	—
Technical, sales, and administrative support occupations	19 839	20 334	14 852	15 182	17 503	18 005	12 310	12 812	19 666	20 452	13 192	12 574	17 270	9 481	12 255
Technicians and related support occupations	19 201	19 549	15 602	16 300	16 984	17 228	14 054	14 137	20 643	21 049	17 020	17 048	15 587	12 079	15 855
Health technologists and technicians	22 670	23 096	19 676	20 319	31 722	30 551	—	—	24 435	24 435	—	5 480	5 480	—	—
Licensed practical nurses	16 177	16 177	—	—	—	—	—	—	—	—	—	—	—	—	—
Other health technologists and technicians	22 808	23 265	19 676	20 319	31 722	30 551	—	—	24 435	24 435	—	5 480	5 480	—	—
Engineering and science technicians	18 440	18 809	15 085	15 924	16 329	16 586	13 958	13 698	20 207	20 507	17 622	16 611	14 792	12 089	13 992
Electrical and electronic technicians	19 451	19 673	15 757	16 857	17 917	18 729	12 329	—	21 212	21 434	15 048	22 005	17 120	17 120	—
Industrial and mechanical engineering technicians	19 130	19 561	13 108	22 005	18 552	18 453	—	10 325	18 883	18 883	1 705	15 077	17 207	17 207	—
Drafting and surveying technicians	17 834	18 141	15 498	15 498	15 111	15 409	5 924	14 885	18 579	19 015	17 423	17 923	13 301	11 908	13 195
Other engineering and science technicians	18 431	18 812	15 195	15 895	16 425	16 652	14 958	13 455	20 448	20 705	18 130	16 044	16 328	11 908	13 195
Technicians, except health, engineering, and science	22 799	23 074	18 454	19 969	18 245	18 447	14 415	17 324	22 039	22 770	15 551	18 941	18 227	12 005	14 561
Airplane pilots and navigators	28 595	28 595	—	—	27 818	27 818	—	—	26 301	26 301	—	20 891	18 126	12 005	27 037
Air traffic controllers and broadcast equipment operators	17 961	17 343	20 330	—	17 740	17 824	—	—	25 205	25 205	—	17 733	20 891	12 005	27 037
Computer programmers	19 397	19 418	17 303	19 320	17 740	17 824	—	—	20 108	20 358	—	17 733	20 891	12 005	27 037
Other technicians, except health, engineering, and science	24 257	24 697	17 303	20 383	18 106	18 355	13 272	20 655	23 058	24 324	14 288	20 121	17 579	17 591	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Chemicals and allied products				Rubber and miscellaneous plastics products				Other nondurable goods				Lumber and wood products, except furniture			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over—Con																
Technical, sales, and administrative support occupations—Con.																
Sales occupations.....																
Supervisors and proprietors, sales occupations.....	23 673	23 953	17 931	18 724	24 256	24 524	14 260	23 194	25 225	25 927	13 216	13 802	20 960	21 615	9 157	15 231
Soldier.....	27 860	28 300	17 963	18 542	23 937	24 114	19 622	28 104	25 216	25 382	19 420	—	16 148	17 453	9 240	23 128
Self-employed.....	28 001	28 459	17 963	18 542	23 937	24 114	19 622	28 104	25 216	25 382	19 420	—	20 464	21 070	12 443	23 128
Sales representatives, finance and business services.....	22 253	22 253	—	—	23 179	23 179	—	—	14 431	14 054	—	—	11 006	12 063	8 135	—
Sales representatives, commodities, except retail.....	22 162	23 491	14 672	14 715	28 480	28 480	—	—	30 847	31 254	16 505	13 775	16 525	17 001	12 005	15 417
Sales workers, retail and personal services.....	23 502	23 607	17 987	19 090	24 387	24 653	12 587	19 725	25 395	26 139	13 006	14 086	22 209	22 626	8 948	—
Cashiers.....	17 319	17 607	13 738	13 738	17 076	17 903	—	—	11 143	11 732	10 705	14 086	12 803	12 954	8 895	8 895
Other sales occupations, retail and personal services.....	17 994	18 765	21 005	15 986	18 421	22 231	—	—	9 903	11 197	2 005	14 086	7 628	7 472	—	—
Sales related occupations.....	16 981	17 060	—	9 414	16 577	16 577	—	—	12 766	12 404	16 505	15 474	15 474	15 474	—	505
Sales related occupations.....	8 309	8 309	—	4 405	4 085	4 085	—	—	15 569	15 569	—	—	5 852	7 425	—	—
Administrative support occupations, including clerical.....																
Supervisors, administrative support occupations.....	16 831	17 376	13 213	12 642	14 750	15 184	11 569	11 190	16 193	16 931	11 822	10 769	14 151	14 626	9 422	11 080
Computer equipment operators.....	21 771	22 371	15 815	14 773	18 423	18 810	13 266	13 376	22 467	22 796	17 679	14 269	18 072	18 610	9 938	13 973
Secretaries, stenographers, and typists.....	17 640	18 002	15 695	16 482	15 025	16 014	2 932	13 456	16 525	17 714	11 517	10 227	14 949	15 064	13 142	17 005
Secretaries.....	20 611	17 645	43 800	—	16 195	17 187	10 857	9 505	19 941	20 643	10 005	—	16 305	18 032	8 360	4 369
Stenographers and typists.....	18 852	18 699	14 272	—	17 550	18 101	16 338	9 505	21 256	22 260	10 005	—	17 352	18 894	8 360	3 463
Receptionists.....	26 914	12 274	53 866	—	10 127	11 789	6 472	—	10 534	10 534	—	16 275	5 993	6 697	4 833	—
Other information clerks.....	14 838	14 013	27 005	—	12 582	5 505	17 005	—	23 270	22 005	—	—	13 365	13 365	—	—
File clerks.....	22 067	22 081	18 739	23 955	16 848	16 848	—	10 005	22 532	22 532	—	15 372	9 546	9 546	—	—
Other records processing occupations, except financial.....	15 572	15 705	14 179	10 595	14 850	15 001	—	13 346	13 404	14 136	11 207	11 207	14 940	15 213	12 745	10 746
Other records processing occupations, except financial.....	15 842	16 449	14 035	12 148	12 320	12 621	11 067	13 994	13 099	13 099	10 084	11 124	12 130	12 525	8 546	—
Bookkeepers, accounting, and auditing clerks.....	16 162	16 407	11 686	14 979	15 576	15 649	15 854	11 128	17 982	17 828	11 688	10 628	14 093	13 816	—	14 834
Payroll and timekeeping clerks.....	16 964	16 961	20 622	—	13 476	13 335	23 005	17 171	17 845	17 845	13 634	9 224	12 251	12 251	—	—
Other financial records processing occupations.....	17 390	17 702	14 761	5 755	15 658	16 296	8 765	9 685	18 317	18 612	7 595	12 887	16 386	16 708	—	11 379
Telephone operators.....	20 188	21 497	14 561	18 505	12 042	15 782	6 805	—	19 728	22 219	16 005	6 005	10 430	27 005	—	—
Mail and message distributing occupations.....	10 246	10 308	10 046	11 856	9 947	10 638	7 495	13 071	10 436	12 035	7 975	4 648	8 476	7 291	14 916	3 099
Production coordinators and expeditors.....	18 957	19 572	14 258	13 025	16 397	16 783	12 940	12 106	19 226	19 523	10 799	13 617	14 777	15 038	22 403	22 403
Traffic, shipping, and receiving clerks.....	13 251	13 564	12 240	11 126	12 165	12 505	10 204	10 228	10 068	10 317	9 314	8 251	11 088	11 506	8 037	9 165
Stock and inventory clerks.....	14 493	14 906	11 548	12 365	14 104	14 374	12 524	12 204	13 406	13 648	12 335	9 230	13 261	13 609	9 439	12 171
Other material recording, scheduling, and distributing clerks.....	15 065	15 703	10 557	8 480	13 578	13 780	13 482	9 793	17 699	18 103	16 155	2 525	14 239	15 090	7 624	11 851
Adjusters and investigators.....	20 793	20 818	18 018	14 306	19 790	19 888	21 707	14 005	20 028	20 355	12 005	2 525	18 796	18 796	—	16 005
Date-entry keyers.....	14 485	15 280	4 625	13 187	14 064	15 030	10 462	7 525	16 577	17 187	11 645	8 599	27 722	30 468	16 934	16 005
Other administrative support occupations.....	19 243	19 991	11 630	13 783	16 305	16 568	14 313	7 525	17 836	18 665	13 220	15 495	15 594	16 117	10 002	11 605
Service occupations.....																
Private household occupations.....	14 265	14 883	11 583	10 643	12 476	12 772	11 475	7 788	12 516	12 968	11 032	9 434	9 951	10 474	6 497	8 364
Protective service occupations.....	15 283	15 637	12 810	10 584	13 146	13 186	12 591	6 993	13 832	13 914	13 229	14 273	9 089	9 563	5 805	12 705
Guards.....	14 654	14 943	12 512	9 662	12 792	12 836	12 061	6 993	13 914	13 914	13 229	14 273	9 089	9 563	5 805	12 705
Other protective service occupations.....	20 473	21 480	15 117	13 512	19 388	20 070	16 258	—	21 466	21 417	21 554	14 203	8 362	8 800	5 400	12 572
Service occupations, except protective and household.....	13 964	14 637	11 355	10 649	12 340	12 680	11 343	7 816	12 019	12 583	10 367	8 873	15 022	15 488	12 495	13 472
Food preparation and service occupation.....	12 373	12 825	9 170	11 500	9 408	9 628	6 005	4 685	11 041	9 998	12 129	10 988	10 430	10 998	6 836	7 861
Health service occupations.....	23 377	25 398	20 005	—	18 543	13 255	27 005	—	12 932	12 932	—	—	11 071	11 135	10 005	3 752
Cleaning and building service occupations, except household.....	12 377	12 825	9 170	11 500	9 408	9 628	6 005	4 685	11 041	9 998	12 129	10 988	10 430	10 998	6 836	7 861
Personal service occupations.....	13 945	14 608	11 348	10 485	12 353	12 705	11 312	7 808	12 046	12 669	10 277	8 899	10 424	10 977	6 772	7 413
Personal service occupations.....	14 618	16 339	11 148	14 720	13 335	13 522	—	12 005	12 346	12 809	10 401	3 505	10 220	11 377	7 211	14 413
Farming, forestry, and fishing occupations.....																
Farming, forestry, and fishing occupations.....	12 504	13 080	10 796	8 214	11 793	14 254	7 843	3 791	8 739	10 563	3 087	9 939	11 458	12 520	6 414	8 486
Precision production, craft, and repair occupations.....																
Mechanics and repairers.....	20 160	20 487	17 196	16 566	17 401	17 702	14 502	13 691	19 632	20 007	16 973	14 612	14 985	15 348	10 999	11 293
Mechanics and repairers.....	18 260	18 437	16 621	16 544	15 932	16 229	12 343	13 030	17 902	18 184	15 615	15 545	16 212	16 490	12 153	13 213
Supervisors, mechanics and repairers.....	24 650	24 659	23 002	14 676	19 430	20 053	11 937	12 299	24 535	24 545	—	23 922	20 030	20 053	525	—
Automobile mechanics, including body.....	17 015	17 203	15 234	14 279	15 536	15 585	17 739	13 105	17 181	17 227	13 553	16 169	14 189	14 461	9 511	7 709
Industrial machinery repairers.....	17 360	17 617	15 125	15 835	15 193	15 433	11 262	13 619	16 599	16 594	16 404	15 795	14 206	14 176	15 087	11 182
Electronic repairers, communications and industrial equipment.....	17 026	17 420	12 033	18 038	16 815	16 815	—	—	19 904	21 161	7 623	23 595	20 772	21 255	16 005	—
Heating, air conditioning, and refrigeration mechanics.....	19 238	19 350	18 390	28 694	19 857	19 857	—	—	16 460	16 467	10 672	18 718	9 771	9 721	10 545	20 285
Other mechanics and repairers.....	18 561	18 642	17 868	17 286	16 720	17 141	12 827	12 122	18 535	19 080	15 228	14 692	16 873	17 227	11 087	14 365
Construction trades.....																
Supervisors, construction occupations.....	19 006	19 351	15 045	15 737	18 457	18 802	15 439	12 385	20 172	20 428	17 483	19 216	12 338	12 519	9 879	9 833
Carpenters.....	24 980	25 068	20 495	22 005	23 527	24 257	12 143	26 005	25 384	25 586	20 429	25 784	19 383	19 506	11 983	13 827
Capenters.....	17 080	17 370	14 367	13 255	15 057	15 128	15 921	9 449	18 171	18 253	17 582	14 951	10 728	10 728	10 742	9 300
Electricians.....	19 590	19 611	17 343	21 110	18 817	18 996	16 404	15 257	21 352	21 636	17 515	19 319	16 403	16 488	10 194	12 955
Painters, construction and maintenance.....	12 333	12 917	10 283	9 834	11 543	13 547	8 415	5 767	16 735	16 976	13 840	16 816	9 450	9 408	8 757	9 504
Plumbers, pipefitters, and steamfitters.....	19 714	20 079	15 577	17 321	20 070	20 306	15 933	17 723	20 039	20 197	17 731	21 266	12 052	12 491	7 323	9 445
Other construction trades.....	18 077	18 348	17 124	14 739	14 999	14 756	16 422	13 318	17 640	18 007	16 704	16 035	12 593	11 074	8 080	9 352

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Chemicals and allied products				Rubber and miscellaneous plastics products				Other nondurable goods				Lumber and wood products, except furniture			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Precision production, craft, and repair occupations—Con.																
Extrusive occupations	16 668	16 687	15 546	21 655	9 935	9 992	9 816	—	19 885	19 997	18 797	18 531	13 704	14 190	8 187	5 005
Precision production occupations	21 496	21 917	17 988	16 795	17 909	18 205	15 396	14 053	20 663	20 507	17 258	13 417	15 743	16 161	8 187	5 005
Supervisors, production occupations	22 432	22 870	18 701	17 064	18 550	18 798	16 738	14 641	20 663	20 507	17 258	13 417	15 743	16 161	8 187	5 005
Precision metalworking occupations	17 245	17 610	14 129	16 471	16 471	16 820	12 229	11 811	18 591	18 011	15 806	14 311	14 632	15 269	8 907	10 888
Tool and die makers	17 674	17 825	14 999	23 431	18 023	18 180	16 491	11 668	17 966	17 964	14 005	8 405	14 632	15 269	8 907	10 888
Machinists	16 989	17 421	13 999	14 742	16 045	16 434	12 059	13 096	18 326	18 960	14 463	14 706	13 426	14 981	10 112	10 112
Sheet metal workers	17 525	17 612	13 565	16 259	18 815	18 824	18 415	16 931	18 626	18 979	12 982	14 706	13 426	14 981	10 112	10 112
Other precision metal workers	18 466	18 695	15 033	12 338	13 622	14 028	6 615	5 503	19 630	19 404	21 223	13 509	16 367	17 146	8 177	14 549
Precision textile, apparel, and furnishings machine workers	13 029	13 230	11 713	13 991	8 836	8 952	10 288	10 985	8 485	8 997	7 551	7 883	9 251	10 001	5 108	7 414
Precision food production occupations	13 197	13 423	13 531	12 143	12 143	12 115	17 005	9 443	8 962	9 129	8 005	5 830	11 554	12 394	9 171	—
Precision inspectors, testers, and related workers	18 245	19 851	13 176	10 005	15 832	16 621	11 060	11 830	20 214	19 519	28 362	12 545	13 828	13 366	16 641	—
Plant and system operators	20 332	20 547	18 471	17 583	20 550	21 081	12 457	13 686	21 811	22 054	19 302	21 811	17 333	18 257	10 703	15 231
Other precision production occupations	15 635	15 814	13 974	17 005	14 045	13 944	15 363	12 332	15 284	15 248	15 119	8 973	11 257	11 390	9 178	10 233
Operators, fabricators, and laborers																
Machine operators, assemblers, and inspectors	14 655	15 236	12 909	11 096	12 793	13 178	11 768	9 307	13 150	13 535	12 501	9 800	10 823	11 516	7 659	9 347
Machine operators and tenders, except precision	15 242	15 841	13 377	11 383	12 931	13 310	11 986	9 350	13 101	13 371	13 135	9 417	10 822	11 155	7 949	9 105
Metalworking and plastic working machine operators	14 125	14 354	13 577	11 359	12 896	13 174	11 979	8 285	12 811	12 936	13 464	9 167	10 543	11 081	7 965	9 407
Fabricating machine operators, n e c	14 607	14 218	17 922	18 205	12 870	12 369	12 229	8 426	12 189	12 463	12 434	9 418	11 490	11 831	9 237	8 526
Metal and plastic processing and woodworking machine operators	11 282	11 565	9 839	9 042	11 140	11 426	10 086	8 787	9 849	10 268	9 056	6 766	10 053	10 479	7 358	9 402
Printing machine operators	14 291	14 858	12 519	10 483	12 548	13 782	13 496	9 439	12 497	13 766	9 848	11 080	10 948	11 165	7 072	9 252
Textile machine operators	14 004	14 238	13 434	10 893	12 548	13 314	8 567	8 814	11 608	11 963	7 510	7 489	8 779	9 217	7 072	7 283
Textile sewing machine operators	12 677	12 272	13 190	5 666	10 003	10 739	8 970	6 942	8 912	9 644	7 648	7 618	6 683	9 062	8 939	7 283
Laundry and dry cleaning machine operators	12 940	12 722	14 567	18 505	18 505	18 505	12 292	6 620	9 269	13 911	—	6 505	14 340	14 791	10 968	14 568
Packaging and filling machine operators	12 746	13 883	10 668	10 668	11 813	12 292	14 656	10 757	13 431	13 911	12 438	10 429	12 527	12 949	11 996	7 271
Furnace, kiln, and oven operators, except food	18 349	18 769	15 644	17 751	15 638	15 893	14 656	10 757	19 612	20 113	16 866	17 206	13 197	14 263	9 050	16 173
Other specified machine operators	16 174	16 766	13 938	12 783	12 670	12 955	11 414	9 951	10 814	10 857	12 279	8 402	10 967	11 491	8 473	8 894
Miscellaneous and not specified machine operators	14 638	15 262	13 276	10 854	13 368	13 824	12 349	9 287	14 855	15 346	14 496	9 833	10 886	11 726	8 236	9 329
Fabricators, assemblers, and hand working occupations																
Welders and cutters	14 465	15 193	12 148	9 869	11 834	12 182	11 673	8 771	13 385	14 142	10 590	9 718	9 842	10 232	7 731	7 767
Solders and brazers	18 097	18 417	15 942	15 168	14 557	14 785	14 046	10 600	13 557	20 171	15 252	16 448	12 654	13 023	9 797	9 249
Assemblers	12 858	12 858	—	3 393	11 153	12 638	9 561	3 005	8 215	10 085	5 755	17 165	9 340	9 837	15 305	7 330
Hand working occupations	10 855	11 400	10 515	10 515	11 162	11 470	11 370	8 520	9 007	9 375	8 113	7 746	9 111	9 466	7 257	7 664
Production inspectors, testers, samplers, and weighers	13 288	13 169	16 033	10 689	12 288	12 678	12 433	7 398	10 494	10 308	14 120	8 245	12 840	12 762	12 416	1 992
Graders and sorters, except agricultural	15 523	15 919	14 204	11 595	15 003	15 332	13 826	12 573	16 017	16 730	13 066	12 903	12 916	13 621	8 113	12 619
Other production inspectors, testers, samplers, and weighers	10 599	12 147	6 255	6 666	15 426	15 817	13 809	16 005	10 777	11 409	8 769	10 703	12 998	13 867	7 726	12 937
Transportation and material moving occupations																
Transportation occupations	15 686	16 034	14 565	11 852	14 960	15 285	13 829	12 477	16 904	17 457	14 465	13 349	12 729	13 103	9 549	11 347
Motor vehicle operators	14 709	15 318	12 327	11 786	13 616	13 973	12 057	10 458	15 606	16 360	13 112	14 088	12 592	13 538	8 173	10 551
Truck drivers	15 441	16 110	12 673	11 956	15 628	15 986	13 712	11 994	16 455	17 101	13 770	16 804	13 010	14 034	8 451	10 084
Driver-sales workers	15 407	16 093	12 503	11 884	15 641	15 998	13 794	11 822	16 204	16 861	13 506	16 660	12 996	14 023	8 462	9 788
Other motor vehicle operators	15 527	16 314	10 927	14 837	12 036	16 180	14 054	12 394	16 260	16 921	13 561	16 889	13 036	14 059	8 509	9 555
Rail and water transportation occupations	16 224	16 676	15 682	13 880	12 036	16 771	13 538	8 403	16 261	13 921	11 414	10 820	11 574	15 697	4 409	—
Other water transportation occupations	17 723	17 682	20 218	22 405	13 859	14 269	13 425	8 403	15 621	20 368	20 326	10 820	10 462	10 794	6 961	11 715
Material moving occupations	13 968	14 515	11 964	11 633	12 363	12 695	11 102	24 545	15 821	20 579	16 586	21 381	14 520	15 021	5 063	20 818
Supervisors, material moving equipment operators	21 266	21 630	18 825	22 925	15 208	15 342	8 902	6 531	19 236	19 077	22 005	21 381	14 520	15 021	5 063	20 818
Crane, hoist, and winch operators	17 743	17 973	16 459	14 194	12 132	12 847	8 902	6 531	21 692	22 300	17 862	21 148	16 647	18 075	1 885	20 125
Excavating, grading, and dozer machine operators	14 164	15 108	10 396	15 489	13 447	13 955	12 315	7 685	18 095	19 717	15 300	3 205	16 647	18 075	8 060	16 999
Other material moving equipment operators	13 570	14 083	11 786	11 280	12 323	12 643	11 149	9 791	13 935	14 646	12 181	10 559	11 717	12 532	7 939	13 799
Handlers, equipment cleaners, helpers, and laborers																
Supervisors, handlers, equipment cleaners, and laborers, n e c	12 082	12 439	11 435	9 503	11 379	11 777	10 583	8 338	11 447	11 945	10 252	9 228	9 323	10 076	6 581	9 397
Helpers, craft and production	26 278	26 089	29 005	—	19 087	20 747	13 474	13 005	18 918	19 446	12 805	—	16 447	19 826	4 457	10 005
Construction laborers	12 161	12 672	12 307	8 684	10 605	10 718	10 961	8 251	12 634	13 115	12 419	9 923	8 435	8 641	7 556	9 717
Freight, stock, and material handlers	13 694	15 188	8 238	8 359	13 904	14 436	13 968	12 838	12 305	12 464	11 597	12 871	10 517	10 861	7 267	8 129
Gauge and service station operators, and equipment cleaners	12 448	13 046	10 423	9 393	11 841	12 070	11 173	9 036	13 254	13 706	12 054	9 999	10 517	10 732	6 038	11 277
Hand packers and packagers	12 550	12 510	13 155	8 784	12 275	12 571	11 386	8 421	10 535	11 377	8 472	5 940	10 583	10 922	9 000	2 731
Laborers, except construction	11 167	11 666	10 287	8 399	9 356	9 961	8 163	6 163	9 530	9 578	9 709	6 627	8 704	9 219	6 889	7 551
Laborers, except construction	12 047	12 196	12 026	10 220	11 612	12 063	10 560	8 618	11 068	11 609	9 745	9 357	8 832	9 457	6 977	8 468

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Chemicals and allied products				Rubber and miscellaneous plastics products				Other nondurable goods				Lumber and wood products, except furniture			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over	10 705	10 877	10 006	7 926	8 480	8 647	8 032	6 514	7 879	7 895	8 249	6 340	7 856	8 116	6 350	6 449
Managerial and professional specialty occupations	16 059	16 133	15 392	14 058	13 431	13 463	13 396	11 847	14 610	14 639	14 624	12 721	13 049	13 179	7 594	8 239
Executive, administrative, and managerial occupations	15 816	15 936	14 695	13 621	13 446	13 470	13 368	13 018	14 066	14 088	14 127	10 851	13 512	13 676	6 958	9 589
Officials and administrators, public administration	5 005	5 005	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Financial managers	17 833	18 051	14 611	14 236	15 834	15 996	11 505	7 605	14 330	14 607	6 472	—	15 816	15 816	—	—
Managers, marketing, advertising, and public relations	18 479	18 489	18 917	14 733	9 192	13 840	13 005	—	12 928	12 914	14 405	10 005	17 749	17 772	13 605	15 005
Administrators, education and related fields	12 288	12 288	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	18 232	18 538	15 031	8 193	13 765	13 662	16 043	17 523	15 742	15 677	13 475	17 013	12 891	13 021	9 375	15 442
Managers and administrators, n.e.c.	17 030	17 170	13 171	13 929	14 320	14 345	15 108	13 234	14 014	14 140	13 475	8 241	14 159	14 394	5 213	6 156
Salaried	17 309	17 494	13 212	16 004	14 423	14 435	15 108	13 234	14 403	14 643	13 475	8 241	14 131	14 361	5 414	6 185
Self-employed	7 432	5 739	10 005	15 305	11 044	11 044	—	—	7 861	7 231	—	—	14 384	14 656	3 755	2 478
Management related occupations	14 001	13 973	14 954	12 279	12 155	12 118	12 514	11 988	14 058	14 001	14 551	11 742	11 442	11 491	8 792	11 087
Accountants and auditors	13 481	13 168	16 895	12 395	11 697	11 643	12 472	12 714	13 675	13 692	13 589	11 888	11 088	11 171	7 799	—
Personnel, training, and labor relations specialists	15 491	15 811	13 583	11 870	13 692	13 956	7 851	11 691	15 337	15 055	17 918	16 004	11 208	11 214	—	8 943
Buyers and purchasing agents	13 429	13 453	12 760	13 160	11 493	12 397	13 243	10 821	13 170	12 990	14 521	11 095	12 754	12 799	8 005	15 505
Inspectors and compliance officers	10 998	11 588	9 588	8 123	14 705	12 987	21 005	—	8 550	8 550	—	—	11 335	—	—	11 335
Other management related occupations	16 691	16 777	16 325	18 272	13 669	13 494	15 034	—	16 166	16 515	—	12 227	9 713	9 104	16 405	—
Professional specialty occupations	16 388	16 417	16 285	14 968	13 385	13 440	13 492	7 828	15 789	15 804	16 197	16 739	10 394	10 354	14 005	3 802
Engineers, architects, and surveyors	15 507	15 557	13 089	18 894	13 466	13 630	11 878	14 180	15 326	14 921	22 069	13 337	11 951	11 951	—	—
Architects	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Engineers	15 513	15 564	13 089	18 894	18 545	18 545	13 604	14 180	15 326	14 921	22 069	13 337	11 958	11 958	—	—
Civil engineers	13 798	15 552	7 093	—	13 441	13 441	—	—	14 921	14 921	—	—	11 950	11 950	—	—
Electrical and electronic engineers	20 141	21 824	6 357	30 005	13 688	13 688	—	—	13 369	10 293	18 005	—	9 373	9 373	—	—
Industrial engineers	14 865	15 012	14 006	12 176	12 385	12 355	—	—	13 825	13 825	—	—	16 245	16 245	—	—
Mechanical engineers	17 493	18 274	15 189	12 176	12 385	12 355	—	—	9 832	9 234	—	—	12 241	12 241	—	—
Other engineers	15 678	15 588	14 397	16 727	14 856	15 033	—	26 725	18 559	16 589	27 623	22 475	12 485	12 485	—	—
Surveyors and mapping scientists	7 005	7 005	—	—	—	—	—	—	17 077	—	—	—	—	—	—	—
Computer systems analysts and scientists	18 055	18 282	16 040	17 904	16 478	16 799	13 498	—	18 029	17 333	19 187	—	12 941	12 941	—	—
Operations and systems researchers and analysts	16 239	16 628	17 018	16 818	16 986	16 986	—	—	20 416	20 925	12 598	—	13 817	13 817	—	—
Mathematical scientists	14 844	14 769	13 106	8 531	12 068	11 899	15 005	13 605	14 433	14 433	12 598	—	8 437	8 437	—	—
Natural scientists	16 762	16 847	16 500	16 155	15 036	14 839	14 789	1 100	15 932	16 625	10 158	10 005	9 779	9 399	6 005	—
Chemists, except biochemists	16 556	16 380	16 148	15 678	15 703	15 324	14 789	1 100	16 314	17 196	7 699	10 005	7 275	2 627	16 005	—
Other natural scientists	17 807	17 859	17 780	18 554	11 079	10 870	—	—	13 453	12 761	16 922	—	10 196	10 196	—	—
Health diagnosing occupations	28 365	28 517	12 005	—	—	—	—	—	—	—	—	—	—	—	—	—
Health assessment and treating occupations	16 079	15 944	17 591	6 530	13 415	13 363	18 005	—	14 921	14 972	13 205	15 005	12 256	12 256	—	3 210
Registered nurses	15 102	15 938	19 305	5 005	13 415	13 363	18 005	—	14 921	14 972	13 205	15 005	12 256	12 256	—	3 210
Other health assessment and treating occupations	15 942	15 979	12 105	7 639	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, except postsecondary	10 155	9 601	12 456	—	9 523	10 389	9 435	—	8 484	8 349	12 005	6 367	8 301	8 301	—	—
Social scientists and urban planners	17 999	17 997	20 263	13 514	10 539	10 539	—	—	16 576	16 236	19 879	18 005	13 708	13 708	—	—
Social and recreation workers	7 290	7 290	—	—	14 955	14 955	—	—	9 595	9 595	14 005	11 330	—	—	—	—
Lawyers and judges	26 427	27 569	15 427	44 005	25 196	25 196	—	—	26 417	27 053	18 005	22 603	17 005	—	17 005	—
Writers, artists, entertainers, and athletes	14 397	14 396	17 763	11 038	12 185	12 351	12 705	1 239	15 486	15 543	18 630	26 683	9 488	9 500	11 005	4 186
Other professional specialty occupations	14 814	14 855	14 034	—	11 433	11 433	—	—	14 131	14 404	—	11 165	5 000	5 000	—	—
Technical, sales, and administrative support occupations	10 846	10 852	10 829	9 717	9 523	9 553	9 554	8 042	9 707	9 655	10 055	8 939	8 366	8 434	7 223	6 889
Technicians and related support occupations	12 630	12 605	12 496	11 306	11 363	11 399	11 273	10 039	13 248	12 934	14 685	12 581	9 966	10 072	1 105	10 005
Health technologists and technicians	8 481	14 127	11 995	10 388	11 565	11 769	11 075	—	16 261	16 145	16 659	—	12 225	11 392	—	—
Licensed practical nurses	8 852	8 581	8 201	—	14 989	14 783	15 635	—	10 925	9 214	14 005	—	—	—	—	—
Other health technologists and technicians	14 183	14 696	13 666	10 388	7 032	7 034	7 085	—	17 958	17 878	18 318	—	12 225	11 392	—	—
Engineering and science technicians	12 261	12 226	12 302	11 592	10 949	10 917	11 303	8 480	12 784	12 682	13 209	12 533	9 132	9 346	1 105	10 005
Electrical and electronic technicians	12 794	12 852	13 188	8 745	10 801	10 801	—	9 705	8 940	8 982	10 005	—	11 589	11 589	—	—
Industrial and mechanical engineering technicians	13 225	12 917	17 159	—	10 370	10 370	—	—	10 270	10 270	—	—	—	—	—	—
Drafting and surveying technicians	11 248	10 866	18 405	18 187	9 265	9 393	7 488	—	11 681	11 421	—	—	7 936	7 946	—	—
Other engineering and science technicians	12 272	12 249	12 248	11 528	11 172	11 140	11 440	8 165	13 151	13 027	13 283	12 533	10 245	10 807	1 105	—
Technicians, except health, engineering, and science	14 246	14 051	14 532	10 084	12 503	12 637	11 135	14 941	14 057	13 418	17 359	13 005	11 125	11 127	—	—
Airplane pilots and navigators	—	—	—	—	8 695	8 695	—	—	—	—	—	—	10 005	10 005	—	—
Air traffic controllers and broadcast equipment operators	13 628	13 628	—	—	—	—	—	—	14 934	14 934	—	—	355	355	—	—
Computer programmers	13 736	13 742	13 117	17 648	14 095	14 483	8 005	14 941	14 957	13 728	19 975	—	10 938	10 935	—	—
Other technicians, except health, engineering, and science	14 680	14 318	16 039	7 502	11 001	10 936	13 161	—	12 796	12 879	14 931	13 005	12 327	12 327	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States	Chemicals and allied products				Rubber and miscellaneous plastics products				Other nondurable goods				Lumber and wood products, except furniture			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Technical, sales, and administrative support occupations—Con.																
Sales occupations.....	12 331	12 454	11 052	9 703	9 605	9 900	7 059	6 976	8 776	8 811	8 220	7 710	9 403	9 528	4 457	5 375
Supervisors and proprietors, sales occupations.....	14 005	14 179	9 494	8 855	12 279	12 704	—	3 411	10 003	8 769	17 025	—	11 366	11 302	13 880	6 865
Salaried.....	13 639	13 774	9 494	8 855	12 486	12 948	—	3 411	10 973	9 754	17 025	—	11 375	11 375	13 880	6 865
Self-employed.....	41 005	41 005	—	—	8 755	8 755	—	—	1 445	1 445	—	—	9 148	4 005	—	—
Sales representatives, finance and business services.....	12 820	13 375	3 445	—	11 589	13 960	2 105	8 539	12 451	12 451	—	7 615	17 050	17 050	—	4 467
Sales representatives, commodities, except retail.....	12 534	12 637	11 245	10 666	9 905	9 913	10 286	8 539	8 762	8 911	7 477	7 615	9 595	9 622	—	—
Sales workers, retail and personal services.....	9 503	9 504	10 328	4 372	6 915	8 078	3 666	6 755	7 489	7 268	7 824	8 328	5 708	6 370	1 180	10 005
Cashiers.....	10 718	10 774	11 248	5 077	6 354	7 749	3 666	6 755	7 489	7 418	7 302	8 328	5 354	5 354	1 349	10 005
Other sales occupations, retail and personal services.....	6 580	6 806	4 150	2 408	8 767	8 767	—	—	7 464	6 617	9 358	—	6 688	9 277	1 025	—
Sales related occupations.....	8 330	8 176	10 005	16 405	—	—	—	—	—	—	—	—	—	—	—	—
Administrative support occupations, including clerical.....	10 470	10 490	10 477	9 505	9 408	9 432	9 507	8 034	9 555	9 536	9 613	8 930	8 284	8 349	7 358	6 975
Supervisors, administrative support occupations.....	14 282	14 281	14 752	13 539	12 798	12 882	11 699	8 775	13 843	13 573	17 254	10 474	11 677	11 857	3 080	6 240
Computer equipment operators.....	10 722	10 722	11 366	10 626	9 995	10 083	9 775	8 775	9 706	9 771	9 725	9 204	9 358	9 358	7 068	10 005
Secretaries, stenographers, and typists.....	10 871	10 716	10 483	9 914	9 605	9 640	9 176	9 023	10 021	10 041	9 796	10 833	8 202	8 252	6 504	6 958
Stenographers and typists.....	8 978	8 847	9 736	10 171	9 831	9 857	9 560	9 611	10 201	10 236	9 721	10 159	8 303	8 352	6 744	6 744
Receptionists.....	7 832	7 851	7 421	7 661	7 718	7 718	10 196	6 595	8 700	8 441	9 999	8 476	6 648	6 543	5 706	8 678
Other information clerks.....	10 078	10 161	8 935	7 229	7 305	7 305	9 266	9 128	8 641	7 831	8 744	7 205	6 478	6 505	5 972	4 793
File clerks.....	8 327	8 241	8 245	5 383	8 486	8 539	9 266	5 383	8 791	8 043	12 523	7 018	6 698	6 741	11 005	7 005
Other records processing occupations, except financial.....	10 135	10 097	11 107	10 021	9 768	9 830	9 806	9 115	9 279	9 279	8 713	8 232	8 336	8 336	7 893	3 265
Bookkeepers, accounting, and auditing clerks.....	10 049	10 078	10 063	9 498	9 568	9 534	11 393	9 281	9 658	9 619	9 500	9 844	8 330	8 360	7 794	7 958
Payroll and timekeeping clerks.....	11 120	11 105	11 124	11 880	9 902	9 902	10 192	8 734	8 666	8 478	10 657	8 027	9 035	9 155	8 063	6 880
Other financial records processing occupations.....	9 561	9 564	9 754	6 933	9 329	9 368	8 824	7 100	9 203	9 149	9 527	5 219	8 293	8 344	6 157	10 052
Telephone operators.....	9 608	9 646	9 270	—	7 449	7 569	4 490	6 937	10 019	10 200	8 626	5 876	6 433	6 402	9 146	—
Mail and message distributing occupations.....	7 717	7 990	6 608	6 637	7 681	7 762	8 705	6 693	7 313	7 065	8 639	5 876	7 241	6 207	12 252	—
Production coordinators and expeditors.....	11 169	11 359	10 721	8 712	10 323	10 555	8 099	7 735	9 066	9 156	7 865	7 162	9 766	9 920	6 755	7 997
Traffic, shipping, and receiving clerks.....	9 521	9 460	9 896	9 229	8 683	8 777	7 750	8 309	7 007	6 917	8 519	5 046	7 677	7 553	9 892	4 119
Stock and inventory clerks.....	10 429	10 446	10 350	10 188	8 729	8 759	9 102	7 241	9 002	9 013	7 260	9 901	8 487	9 006	7 166	4 945
Other material recording, scheduling, and distributing clerks.....	10 451	9 607	13 768	8 715	8 259	8 253	8 103	6 703	8 965	8 165	10 308	8 855	9 334	9 116	6 366	—
Adjusters and investigators.....	11 801	11 843	11 179	11 048	11 221	10 923	18 945	8 618	9 566	8 832	8 334	9 234	6 919	6 638	5 005	8 142
Data-entry keyers.....	9 541	9 605	9 313	8 898	8 441	8 415	8 462	5 900	8 724	8 578	8 536	10 960	8 512	8 394	9 282	9 971
Other administrative support occupations.....	10 428	10 342	11 498	9 175	8 441	8 415	8 231	5 900	9 137	9 172	9 093	7 719	7 682	7 820	5 432	7 464
Service occupations.....	8 615	8 810	8 024	5 526	8 151	8 021	8 845	6 947	6 696	6 523	7 408	4 272	5 900	6 296	4 680	4 369
Private household occupations.....	10 329	10 785	9 297	3 980	11 745	11 604	12 243	7 938	7 876	7 223	10 059	1 889	7 370	6 957	11 439	1 675
Protective service occupations.....	10 459	10 947	9 297	3 980	11 745	11 604	12 243	7 938	7 876	7 223	10 059	1 889	7 370	6 957	11 439	1 675
Guard.....	4 880	4 880	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other protective service occupations.....	8 430	8 581	7 904	5 561	7 858	7 749	8 437	6 812	6 581	6 457	7 150	4 497	5 641	4 040	4 330	4 587
Service occupations, except protective and household.....	7 784	7 865	7 725	4 264	7 924	8 250	6 199	5 845	5 581	5 553	6 942	6 889	6 175	6 150	4 616	—
Health service occupations.....	11 860	12 110	10 837	4 264	10 066	11 327	4 067	5 307	10 973	9 472	11 919	6 551	6 551	9 222	4 573	—
Health service occupations, except household.....	8 384	8 722	7 860	5 733	7 798	7 566	8 767	6 005	6 470	6 545	6 693	3 714	5 679	6 215	4 465	4 587
Cleaning and building service occupations, except household.....	8 585	7 845	7 197	5 538	6 517	6 547	—	—	6 870	6 464	7 891	7 088	3 998	3 610	7 005	—
Personal service occupations.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farming, forestry, and fishing occupations.....	9 463	9 597	10 505	1 610	6 766	6 899	6 005	—	5 956	4 142	10 005	—	6 121	6 184	5 620	3 224
Precision production, craft, and repair occupations.....	12 440	12 652	12 052	8 589	9 963	10 376	8 518	6 818	8 226	8 280	9 100	6 101	7 953	8 165	6 663	6 908
Mechanics and repairers.....	17 892	12 496	9 452	9 974	10 729	11 344	7 413	9 363	8 950	8 873	10 289	5 783	7 953	8 416	6 218	3 672
Supervisors, mechanics and repairers.....	7 491	7 839	7 705	—	9 315	9 315	—	—	4 699	4 699	—	—	10 489	10 489	—	—
Automobile mechanics, including body.....	12 344	12 419	10 837	9 030	12 710	13 438	9 215	11 850	12 122	8 536	67 855	21 605	8 857	8 857	—	—
Industrial machinery repairers.....	—	—	—	—	10 563	10 918	7 689	12 174	8 728	8 974	2 925	—	—	—	—	—
Electronic repairers, communications and industrial equipment.....	14 706	14 706	—	—	9 885	9 885	—	—	—	—	—	—	—	—	—	—
Heating, air conditioning, and refrigeration mechanics.....	12 950	12 950	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other mechanics and repairers.....	11 498	12 284	9 065	10 315	10 634	11 483	7 052	5 903	9 001	9 034	9 764	5 269	7 442	8 122	6 218	3 672
Construction trades.....	6 390	5 885	11 904	5 390	8 255	8 199	8 800	7 296	11 512	11 241	12 266	10 121	12 757	12 757	5 228	9 344
Supervisors, construction occupations.....	218	218	—	—	—	—	—	—	6 199	6 199	—	—	6 972	6 972	6 582	9 763
Carpenters.....	12 396	13 938	4 685	—	10 344	11 060	8 672	—	10 194	10 194	—	6 445	6 593	6 481	6 081	11 155
Electricians.....	14 935	13 916	20 712	—	12 162	12 162	—	—	16 749	17 578	13 822	—	8 252	8 034	—	—
Painters, construction and maintenance.....	5 599	5 144	6 819	5 390	7 421	7 398	8 029	6 069	8 451	8 815	8 005	4 110	5 514	6 027	3 992	3 974
Plumbers, pipefitters, and steamfitters.....	13 821	13 821	—	—	10 869	10 188	12 862	9 505	13 289	12 466	19 576	17 505	5 764	5 764	5 469	—
Other construction trades.....	10 190	9 061	14 405	—	6 131	4 847	8 312	9 505	8 897	9 054	7 766	19 505	7 307	7 868	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Chemicals and allied products				Rubber and miscellaneous plastics products				Other nondurable goods				Lumber and wood products, except furniture			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Precision production, craft, and repair occupations—Con																
Extractive occupations	12 038	12 593	6 765	5 035	11 498	11 498	—	—	13 605	16 666	—	—	8 409	8 639	7 354	6 639
Precision production occupations	13 022	13 299	12 567	8 595	9 937	10 328	8 694	6 469	8 071	8 146	8 866	—	—	10 169	10 374	7 224
Supervisors, production occupations	14 070	14 347	13 511	8 848	11 092	11 378	10 477	7 036	10 023	10 923	11 545	—	—	10 374	10 580	8 850
Precision metalworking occupations	8 013	8 326	8 844	6 317	7 430	7 714	6 842	5 107	7 920	7 920	8 293	—	—	7 381	7 592	6 090
Tool and die makers	7 856	8 235	5 165	6 505	8 844	8 746	10 005	—	12 140	12 140	8 496	—	—	5 829	10 113	9 505
Machinists	8 181	8 625	8 929	6 265	7 308	7 735	6 584	5 131	8 518	8 754	8 496	—	—	5 786	5 363	5 956
Sheet metal workers	12 005	12 005	—	—	9 481	9 481	—	—	9 636	9 636	—	—	—	9 227	9 227	—
Other precision metal workers	6 951	6 552	14 802	6 595	7 600	7 498	12 663	3 005	4 080	2 645	1 705	—	—	10 534	11 851	4 937
Precision textile, apparel, and furnishings machine workers	5 857	5 911	6 775	3 964	6 188	6 167	5 506	6 998	6 155	6 271	5 721	—	—	5 482	5 481	8 915
Precision food production occupations	3 697	4 585	1 365	—	7 341	7 341	—	—	9 133	9 133	—	—	—	3 047	7 075	—
Precision inspectors, testers, and related workers	11 514	11 141	11 760	—	8 669	8 676	10 595	4 802	7 638	9 785	13 755	—	—	8 489	8 489	—
Plant and system operators	11 810	12 035	10 225	16 574	10 746	10 746	10 005	—	13 776	16 601	11 212	—	—	7 704	7 078	—
Other precision production occupations	8 367	6 735	16 744	9 005	11 997	12 598	8 660	9 674	8 986	8 269	5 005	—	—	7 122	7 035	5 855
Operators, fabricators, and laborers	8 474	8 594	8 662	6 459	7 598	7 712	7 601	6 194	6 549	6 513	7 319	—	—	6 992	7 175	6 295
Machine operators, assemblers, and inspectors	8 523	8 628	8 796	6 445	7 609	7 707	7 653	6 309	6 492	6 467	7 214	—	—	7 006	7 133	6 335
Machine operators and tenders, except precision	8 742	8 812	9 156	6 376	7 613	7 613	7 180	6 080	6 431	6 416	7 044	—	—	6 981	7 124	6 291
Metalworking and plastic working machine operators	7 920	8 145	6 287	5 560	8 874	8 001	8 667	6 365	6 136	5 964	7 252	—	—	6 284	6 367	4 997
Fabricating machine operators, n.e.c.	8 148	6 697	6 116	7 505	9 364	9 147	8 805	7 005	6 164	6 210	6 005	—	—	6 994	6 994	4 005
Metal and plastic processing and woodworking machine operators	6 684	6 686	6 743	6 135	6 686	7 571	7 778	7 355	6 357	6 228	6 979	—	—	6 593	6 801	6 306
Printing machine operators	8 840	8 810	10 914	5 501	8 017	7 996	8 171	4 721	5 953	5 750	11 255	—	—	7 147	8 041	6 291
Textile machine operators	10 773	11 113	9 667	7 618	7 959	7 914	9 209	7 014	7 656	6 684	6 732	—	—	8 868	7 258	7 205
Textile sewing machine operators	7 396	7 234	8 177	5 689	6 115	6 212	6 021	6 408	5 821	5 891	6 147	—	—	7 266	7 450	5 596
Laundry and dry cleaning machine operators	8 302	10 171	3 018	6 998	5 224	1 805	6 778	—	2 949	4 767	996	—	—	8 065	9 040	7 005
Packaging and filling machine operators	8 346	8 562	8 683	6 998	7 404	7 399	8 162	4 671	10 289	13 474	12 099	—	—	5 957	5 879	5 464
Furnace, kiln, and oven operators, except food	13 983	14 395	12 945	8 300	7 495	7 873	5 916	4 015	12 339	13 474	4 475	—	—	6 502	7 830	4 151
Other specified machine operators	10 166	10 659	9 624	6 688	7 194	7 343	6 721	5 291	6 095	6 095	5 429	—	—	7 162	7 077	5 927
Miscellaneous and not specified machine operators	8 725	8 773	9 324	6 816	7 527	7 556	7 053	5 944	7 722	7 646	8 686	—	—	7 447	7 707	7 290
Fabricators, assemblers, and hand working occupations	7 178	7 264	7 460	5 920	7 257	7 161	9 288	6 385	5 963	5 943	6 192	—	—	6 590	6 719	5 177
Welders and cutters	9 069	10 456	8 940	7 184	7 855	9 380	10 428	6 215	7 742	8 164	5 065	—	—	6 892	6 850	6 600
Solders and brazers	8 806	9 336	5 131	14 539	9 199	8 350	9 423	5 895	8 099	8 461	5 065	—	—	7 797	7 356	7 005
Assemblers	7 144	7 523	7 466	5 885	7 240	7 157	8 298	6 350	8 954	9 589	6 135	—	—	6 635	6 771	5 135
Hand working occupations	6 487	7 028	6 859	5 444	6 577	5 976	8 350	4 440	7 776	7 706	6 213	—	—	5 051	5 543	5 505
Production inspectors, testers, samplers, and weighers	9 805	9 948	9 505	8 534	9 540	8 664	8 606	8 205	7 735	7 610	9 052	—	—	7 907	8 031	9 901
Graders and sorters, except agricultural	8 519	8 619	11 225	4 514	7 549	7 647	6 387	3 144	5 462	5 845	4 371	—	—	7 358	7 528	12 599
Other production inspectors, testers, samplers, and weighers	9 849	9 989	9 447	8 747	8 790	8 794	8 673	8 706	7 985	7 762	10 030	—	—	7 263	7 488	6 108
Transportation and material moving occupations	10 598	10 484	12 056	7 889	9 061	9 180	8 204	8 349	8 366	8 492	8 569	—	—	8 006	8 411	8 660
Transportation occupations	9 704	9 185	8 307	7 960	9 818	9 713	12 280	9 439	9 631	9 503	10 544	—	—	8 724	9 096	8 504
Motor vehicle operators	9 495	9 861	8 307	7 960	9 809	9 701	12 280	—	9 905	9 872	10 544	—	—	8 724	9 096	8 504
Truck drivers	9 475	9 771	8 629	9 287	9 574	9 566	11 167	—	9 506	9 272	10 544	—	—	9 271	9 635	8 504
Truck sales workers	4 794	4 669	5 105	—	9 535	9 535	—	—	10 493	10 493	—	—	—	—	—	—
Other motor vehicle operators	13 894	11 305	7 665	—	12 360	11 480	15 175	—	10 919	10 919	—	—	—	5 718	6 140	—
Rail and water transportation occupations	13 894	17 488	—	—	11 005	11 005	—	—	10 919	10 919	—	—	—	—	—	—
Material moving equipment operators	10 772	10 511	13 085	7 875	8 983	9 123	7 841	8 349	8 153	8 310	8 221	—	—	7 733	8 138	8 772
Supervisors, material moving equipment operators	15 512	15 512	—	—	13 541	13 541	—	—	8 502	8 502	—	—	—	5 033	5 033	—
Cone, hoist and winch operators	12 928	12 928	—	—	8 066	8 066	—	—	8 502	8 502	—	—	—	10 676	11 116	—
Excavating, grading, and dozer machine operators	7 268	8 033	4 105	6 251	7 355	4 905	—	8 405	10 805	8 502	10 805	—	—	9 940	13 093	—
Other material moving equipment operators	10 474	13 151	13 151	8 027	8 972	9 108	7 841	8 331	8 135	8 307	8 114	—	—	7 572	7 915	8 772
Handlers, equipment cleaners, helpers, and laborers	8 043	8 232	7 844	6 384	7 335	7 525	7 248	5 474	6 773	6 647	7 684	—	—	6 756	7 111	5 910
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	16 665	16 665	—	—	6 885	6 885	—	—	—	—	—	—	—	—	—	—
Helpers, craft and production	8 767	9 459	7 814	4 658	8 851	9 441	9 398	6 719	8 352	8 319	9 314	—	—	5 787	5 302	11 550
Construction laborers	8 759	9 309	8 082	—	8 123	10 429	1 205	—	14 997	14 159	8 728	—	—	6 841	8 167	—
Freight, stock, and material handlers	9 179	9 292	8 947	10 434	8 219	8 463	7 378	5 472	7 336	7 120	8 284	—	—	7 530	5 372	8 226
Garage and service station occupations, and equipment cleaners	9 313	9 394	9 349	4 829	9 078	10 087	10 168	—	6 190	5 561	6 908	—	—	7 373	7 753	6 005
Hand packers and packagers	7 838	7 969	7 851	6 268	7 037	7 184	7 046	5 572	6 394	6 230	7 671	—	—	5 907	6 023	4 191
Laborers, except construction	8 147	8 529	7 361	6 655	7 643	7 892	7 281	4 945	6 958	7 031	7 340	—	—	6 402	6 946	5 754

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Furniture and fixtures				Stone, clay, glass, and concrete products				Primary iron and steel industries				Primary nonferrous industries			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed males 16 years and over	12 643	13 389	8 614	9 408	16 442	17 135	11 625	12 005	19 709	20 528	15 781	16 016	18 156	18 850	13 549	13 576
Managerial and professional specialty occupations	25 796	26 227	13 181	15 914	27 255	27 536	15 614	19 166	30 045	30 452	19 475	23 581	30 089	30 512	19 305	21 963
Executive, administrative, and managerial occupations	27 118	27 508	14 185	16 864	28 994	29 236	16 024	20 939	32 778	33 261	20 405	24 391	33 093	33 549	19 506	23 225
Officials and administrators, public administration	21 005	21 005	—	—	—	—	—	—	14 005	14 005	—	—	12 755	12 755	—	—
Financial managers	24 166	24 361	—	14 634	31 440	31 637	22 600	25 611	32 978	33 001	20 305	46 940	31 846	32 143	28 733	29 835
Managers, marketing, advertising, and public relations	31 886	31 983	23 364	29 838	32 351	32 469	13 438	34 017	36 629	36 715	—	43 946	33 048	33 186	29 422	18 396
Administrators, education and related fields	—	—	—	—	23 539	23 539	—	—	31 964	31 964	—	—	34 945	34 945	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	21 692	21 692	13 722	11 885	26 154	26 328	6 132	25 886	28 128	28 701	21 789	17 407	29 278	29 441	26 498	17 686
Managers and administrators, n.e.c.	28 613	29 025	14 094	16 946	30 401	30 638	17 074	21 112	36 879	37 518	19 321	25 321	37 528	37 947	16 464	25 616
Self-employed	29 978	30 469	13 534	18 044	31 358	31 607	17 361	22 401	37 187	37 837	19 487	24 411	37 596	38 018	16 385	25 616
Managerial related occupations	18 387	18 100	23 922	12 163	18 681	18 875	3 005	12 269	27 029	27 094	10 005	36 471	35 067	35 428	18 005	—
Accountants and auditors	18 520	18 815	12 340	15 437	19 801	19 956	14 380	16 323	24 253	24 419	21 084	20 407	22 347	22 635	19 627	18 387
Personnel, training, and labor relations specialists	18 741	18 964	14 605	19 894	19 294	19 446	14 301	15 721	23 737	23 922	18 890	17 454	21 499	21 833	19 369	19 799
Buyers and purchasing agents	16 994	17 444	11 613	15 246	20 893	21 272	13 241	16 857	26 161	26 518	23 209	24 209	23 322	23 859	19 059	16 370
Inspectors and compliance officers	19 028	19 299	10 005	13 382	18 785	18 788	18 679	6 905	22 828	22 828	17 026	21 140	21 696	21 751	23 763	13 700
Other management related occupations	15 005	15 005	—	—	17 499	17 499	—	15 545	20 351	20 302	21 588	8 148	22 276	22 276	—	—
Professional specialty occupations	18 544	19 030	9 257	10 872	22 118	22 356	14 921	14 703	25 361	25 608	17 925	21 115	24 108	24 330	18 979	19 745
Engineers, architects, and surveyors	18 813	18 986	12 656	16 846	23 301	23 383	19 224	20 984	25 436	25 647	18 297	20 499	23 927	24 053	19 416	20 917
Architects	24 609	26 734	12 656	7 005	24 760	24 760	—	—	23 789	24 490	20 005	20 499	23 927	24 053	19 435	—
Engineers	18 694	18 840	12 656	18 122	23 321	23 399	19 317	20 984	25 445	25 655	18 275	20 499	23 986	24 077	19 851	22 212
Civil engineers	19 293	21 728	425	—	28 857	29 271	—	—	25 445	25 655	18 275	20 499	23 986	24 077	19 851	22 212
Electrical and electronic engineers	21 265	21 265	—	—	22 239	22 443	—	—	26 486	26 614	22 718	29 769	24 526	24 646	23 005	33 576
Industrial engineers	18 162	18 162	—	—	21 566	21 471	—	—	24 119	24 190	19 619	21 539	21 751	21 828	22 005	19 886
Mechanical engineers	21 333	3 205	1 095	15 768	23 670	23 771	11 062	23 071	26 229	26 556	16 826	18 066	24 352	25 197	23 485	25 928
Other engineers	18 379	18 379	—	17 305	14 311	12 573	17 785	—	22 321	22 321	—	—	12 562	16 791	17 412	11 585
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer systems analysts and scientists	22 759	22 759	—	—	22 827	22 734	13 005	19 585	24 648	24 531	26 780	—	24 546	24 453	22 425	21 245
Operations and systems researchers and analysts	16 424	17 197	8 005	—	21 915	21 707	40 005	40 005	23 783	23 707	37 455	—	22 372	22 372	12 125	15 005
Mathematical scientists	28 924	28 924	—	—	18 489	18 489	—	—	25 514	26 400	21 805	20 390	21 846	19 013	—	—
Natural scientists	28 839	29 431	—	—	21 483	21 604	12 434	13 580	23 077	23 452	16 526	22 130	22 224	22 491	18 940	17 741
Chemists, except biochemists	34 177	35 437	—	—	20 483	20 727	17 580	13 580	22 443	22 826	16 526	18 338	21 815	22 014	18 940	18 765
Other natural scientists	15 652	15 652	—	—	51 698	51 698	—	—	30 985	31 736	—	28 254	24 482	25 016	10 005	13 135
Health diagnosing occupations	—	—	—	—	47 675	47 675	—	—	47 675	47 675	—	—	39 162	41 287	—	—
Health assessment and treating occupations	—	—	—	—	19 537	19 537	—	17 165	22 191	22 640	15 005	—	24 683	29 703	13 805	—
Registered nurses	—	—	—	—	21 005	21 005	—	—	27 439	27 439	—	—	18 662	23 518	13 805	—
Other health assessment and treating occupations	—	—	—	—	17 335	17 335	—	17 165	20 206	20 664	15 005	—	35 005	35 005	—	—
Teachers, except postsecondary	21 824	32 521	10 155	—	16 235	16 937	9 170	17 165	21 903	21 971	20 842	30 823	17 003	17 531	19 935	5 005
Social scientists and urban planners	31 282	31 282	—	—	27 080	27 649	—	—	36 178	37 702	—	—	32 952	34 026	—	—
Social and recreation workers	14 014	14 014	—	—	14 753	10 500	19 005	2 505	37 189	37 189	—	—	56 796	59 225	34 931	—
Lower and judges	26 752	26 752	—	—	40 927	40 927	—	—	37 189	37 189	—	—	21 580	22 802	15 409	12 207
Writers, artists, entertainers, and athletes	16 184	16 977	7 880	8 491	15 538	15 964	6 978	6 695	22 360	23 546	5 709	20 005	14 460	17 295	10 005	—
Other professional specialty occupations	15 023	15 023	—	—	14 890	16 691	9 675	8 325	23 055	23 055	—	—	—	—	—	—
Technical, sales, and administrative support occupations	17 443	18 353	8 857	9 767	17 764	18 172	12 728	11 985	20 679	21 037	16 947	16 681	18 150	18 510	14 614	13 273
Technicians and related support occupations	14 340	14 509	9 314	14 029	16 547	16 748	13 511	12 909	19 712	19 819	18 633	16 929	17 978	18 192	16 143	16 096
Health technologists and technicians	29 645	29 645	—	—	18 892	20 531	—	—	9 037	9 088	17 996	—	19 867	17 758	—	21 980
Licensed practical nurses	—	—	—	—	17 533	15 005	—	—	9 259	9 259	—	—	26 005	26 005	—	—
Other health technologists and technicians	29 645	29 645	—	—	19 210	21 198	—	—	20 158	20 275	17 996	—	19 483	19 353	—	21 980
Engineering and science technicians	13 999	14 216	7 684	13 783	15 731	15 923	12 525	12 284	19 363	19 436	18 585	17 012	17 584	17 888	15 413	15 449
Electrical and electronic technicians	11 213	12 446	6 002	11 005	19 456	19 327	20 316	22 005	22 848	22 916	20 787	24 640	19 297	19 717	17 802	14 722
Industrial and mechanical engineering technicians	13 633	13 633	—	—	18 773	19 327	11 005	12 038	20 348	21 038	15 001	22 677	22 495	23 200	10 655	12 005
Drafting and surveying technicians	13 687	13 908	8 219	12 581	14 106	14 146	12 163	12 989	17 323	17 489	15 537	12 164	16 933	17 263	13 091	17 263
Other engineering and science technicians	15 933	15 806	—	16 284	15 904	16 193	12 150	11 056	19 949	19 989	19 174	17 786	17 440	17 244	15 813	15 493
Technicians, except health, engineering, and science	15 401	15 415	14 565	15 421	19 203	19 474	16 169	17 259	21 452	21 708	19 035	16 430	19 259	19 146	19 982	19 366
Airplane pilots and navigators	20 227	20 227	—	—	25 972	25 972	—	—	26 591	26 591	—	20 005	27 386	27 386	—	—
Air traffic controllers and broadcast equipment operators	10 176	10 176	—	—	22 025	22 025	—	—	19 462	19 462	—	—	20 547	20 547	—	—
Computer programmers	14 808	14 573	16 106	20 525	18 606	18 936	16 756	4 438	20 867	20 867	16 486	18 629	17 826	17 643	18 970	12 713
Other technicians, except health, engineering, and science	16 057	16 366	10 905	12 505	18 870	19 077	15 773	21 105	21 895	22 149	21 051	11 470	19 945	19 810	20 942	23 567

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States				Stone, clay, glass, and concrete products				Primary iron and steel industries				Primary nonferrous industries			
	Furniture and fixtures				Race				Race				Race			
	Total	White	Black	Spanish origin ¹	Total	White	Black	Spanish origin ¹	Total	White	Black	Spanish origin ¹	Total	White	Black	Spanish origin ¹
Technical, sales, and administrative support occupations—Con																
Sales occupations	26 807	27 258	10 878	11 925	22 212	22 408	14 098	17 141	25 290	25 523	18 390	17 347	23 614	23 809	16 564	14 537
Supervisors and proprietors, sales occupations	21 904	22 619	3 798	7 253	24 879	25 228	14 197	24 576	29 033	29 834	19 924	19 005	20 717	21 739	9 181	9 533
Salaries	22 211	22 619	3 798	7 253	24 879	25 228	14 197	24 576	29 033	29 834	19 924	19 005	20 717	21 739	9 181	9 533
Self-employed	20 435	20 604	4 005	5 000	14 137	14 288	7 727	22 005	21 514	22 938	18 238	4 106	10 948	12 811	9 510	9 510
Sales representatives, finance and business services	19 570	19 972	7 505	13 415	22 168	22 334	14 631	17 391	25 235	25 411	17 840	20 005	23 990	24 086	21 108	17 090
Sales representatives, commodities, except retail	27 598	28 011	12 372	13 415	22 168	22 334	14 631	17 391	25 235	25 411	17 840	20 005	23 990	24 086	21 108	17 090
Sales workers, retail and personal services	11 561	13 500	5 410	13 415	14 274	14 551	11 656	14 045	20 392	21 916	10 005	20 005	10 984	14 624	9 638	9 638
Cashiers	9 065	8 421	10 138	—	13 439	15 559	12 076	—	20 392	21 916	10 005	20 005	10 984	14 624	9 638	9 638
Other sales occupations, retail and personal services	12 793	15 395	3 344	—	14 377	14 500	10 675	14 045	19 075	18 953	20 191	20 005	15 206	15 311	—	—
Sales related occupations	12 036	12 036	—	—	4 683	4 683	—	—	12 919	12 511	14 005	—	3 155	3 155	—	—
Administrative support occupations, including clerical	11 647	12 154	8 635	8 986	15 473	15 903	12 218	10 580	19 979	20 393	16 418	16 549	16 251	16 567	13 961	12 286
Supervisors, administrative support occupations	15 293	15 635	13 734	9 502	20 139	20 283	19 488	14 808	25 881	26 253	18 623	17 258	21 263	21 472	17 479	13 502
Computer equipment operators	14 147	14 032	15 221	13 333	16 575	16 506	16 790	14 026	19 553	18 888	16 888	20 304	16 449	17 649	9 903	—
Secretaries, stenographers, and typists	27 269	28 935	7 274	—	29 096	29 096	—	—	19 306	20 355	8 171	42 770	18 401	19 669	9 903	—
Secretaries	32 603	33 841	7 005	—	32 131	32 131	—	—	21 084	22 227	—	60 005	22 234	22 334	9 903	—
Stenographers and typists	9 488	9 922	7 505	—	8 646	8 646	—	—	17 773	18 610	11 514	14 045	12 229	13 422	9 903	—
Receptionists	—	—	—	—	3 660	3 660	—	—	19 612	20 036	17 528	22 542	12 505	12 505	—	—
Other information clerks	10 853	10 811	—	—	18 680	18 680	—	—	20 440	20 504	17 201	22 542	14 694	13 814	—	—
File clerks	11 348	11 611	4 763	2 605	15 181	15 606	15 181	8 500	18 408	18 849	8 896	15 034	16 002	16 273	16 325	6 244
Other records processing occupations, except financial	12 756	14 314	5 817	9 948	14 816	14 816	—	23 592	19 442	19 521	18 483	15 759	16 956	17 520	12 797	11 757
Bookkeepers, accounting, and auditing clerks	12 947	12 998	12 754	2 961	15 191	15 497	9 934	10 174	20 820	21 172	18 201	15 673	16 762	16 515	16 224	11 225
Poverty and timekeeping clerks	13 594	13 594	—	10 505	15 125	15 073	16 255	6 995	19 267	19 287	19 924	18 942	15 985	17 902	9 480	10 005
Other financial records processing occupations	12 409	13 593	—	2 005	17 672	18 028	—	—	19 973	20 237	20 237	18 857	15 985	16 922	—	—
Telephone operators	7 579	7 340	—	4 355	22 341	22 341	—	—	20 703	19 500	25 005	11 857	17 726	16 854	21 215	9 445
Mail and message distributing occupations	8 108	8 721	3 415	9 208	10 515	10 969	9 439	5 507	14 296	14 921	10 707	12 861	12 770	11 793	13 658	14 812
Production coordinators and expeditors	13 833	14 293	8 368	11 571	16 318	16 737	13 849	8 338	18 992	18 992	14 921	14 131	12 939	13 483	18 363	11 051
Traffic, shipping, and receiving clerks	9 287	9 592	8 013	8 336	12 413	12 867	9 826	10 657	16 773	17 324	18 992	14 921	12 939	13 483	18 363	11 051
Stock and inventory clerks	10 465	10 800	8 363	9 543	14 273	14 641	11 700	9 608	17 951	18 210	16 300	13 616	15 910	16 053	15 671	11 833
Other material recording, scheduling, and distributing clerks	12 996	13 556	9 945	12 449	16 082	16 227	15 644	10 956	19 613	19 880	18 142	17 959	16 972	17 433	11 333	11 833
Adapters and investigators	11 339	11 199	7 757	12 409	17 169	17 636	8 548	15 550	22 622	23 300	5 835	5 005	18 180	18 010	24 615	17 705
Data-entry keyers	11 300	15 178	7 005	23 005	14 210	14 876	8 548	15 550	22 622	23 300	5 835	5 005	18 180	18 010	24 615	17 705
Other administrative support occupations	12 005	12 600	9 427	8 290	15 040	15 385	11 935	9 643	20 092	20 349	17 109	17 704	16 103	15 537	15 325	15 600
Service occupations	8 892	9 300	6 951	6 911	13 073	13 566	10 595	9 974	16 050	16 612	13 571	13 756	14 311	14 609	13 220	11 357
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	8 257	8 360	7 358	10 819	10 866	10 949	10 546	8 799	17 881	18 022	17 266	13 477	15 122	15 268	13 534	12 392
Guards	8 010	8 088	7 358	10 819	10 616	10 617	11 627	8 799	17 453	17 649	16 388	13 990	14 644	14 752	13 534	12 392
Other protective service occupations	18 737	18 737	—	—	15 222	16 913	—	—	21 826	21 368	28 361	235	22 302	22 302	13 155	11 228
Service occupations, except protective and household	9 075	9 606	6 881	6 803	13 513	14 149	10 599	10 061	15 347	16 003	12 800	8 805	13 797	14 025	13 155	11 228
Food preparation and service occupation	7 303	7 678	3 585	—	10 045	10 739	8 789	8 005	16 075	17 694	6 706	7 421	10 425	10 128	—	5 669
Health service occupations	9 005	9 005	—	—	15 009	15 009	—	—	17 088	16 824	22 195	13 628	21 959	21 959	—	—
Cleaning and building service occupations, except household	9 164	9 644	7 141	6 898	13 389	14 232	10 636	10 081	15 254	15 899	19 268	13 628	21 959	21 959	—	—
Personal service occupations	4 949	6 369	1 726	—	10 818	11 108	8 912	—	21 408	22 130	19 268	23 625	17 581	19 233	10 956	19 284
Farming, forestry, and fishing occupations	8 092	7 168	10 232	3 831	10 444	10 591	9 528	11 725	17 391	17 640	18 457	12 849	11 643	11 583	13 005	16 805
Precision production, craft, and repair occupations	12 321	12 672	9 540	10 889	17 515	17 896	13 769	13 731	21 938	22 398	18 541	18 621	19 699	20 110	15 858	16 187
Mechanics and repairers	13 524	13 870	10 960	12 253	17 461	17 644	13 769	15 428	28 396	28 481	19 948	20 844	19 743	20 012	16 362	17 931
Supervisors, mechanics and repairers	20 997	22 108	6 340	20 005	21 263	20 878	33 634	22 124	28 396	28 625	28 625	24 851	24 858	24 858	20 105	19 955
Automobile mechanics, including body	12 797	12 843	9 460	15 685	16 137	16 322	14 149	14 696	19 875	20 309	16 488	18 433	20 026	20 026	11 556	22 396
Industrial machinery repairers	12 102	12 372	9 460	12 102	17 503	17 638	15 428	16 184	20 137	20 213	19 516	19 007	18 899	19 078	15 306	18 631
Electronic repairers, communications and industrial equipment	10 121	10 121	—	6 005	18 969	18 926	19 505	18 255	24 241	24 220	23 677	25 228	22 021	22 385	18 849	21 382
Heating, air conditioning, and refrigeration mechanics	18 487	19 053	18 005	15 637	17 439	17 761	14 878	14 773	22 129	22 509	19 906	21 538	20 126	20 126	17 105	16 483
Other mechanics and repairers	15 123	15 592	11 255	11 727	17 488	17 721	—	—	22 525	22 864	19 906	21 221	20 000	20 308	17 105	16 483
Construction trades	10 784	11 234	8 896	9 143	15 588	16 202	11 465	11 641	21 971	22 291	18 886	19 864	20 095	20 355	15 917	13 538
Supervisors, construction occupations	17 248	17 248	—	10 995	20 183	20 317	8 994	26 942	28 148	28 073	23 107	19 703	25 640	25 774	17 475	32 158
Carpenters	10 417	10 814	8 763	9 146	13 489	13 605	11 179	9 924	19 557	19 703	15 756	21 561	15 768	15 951	11 534	17 475
Painters, construction and maintenance	9 253	9 492	1 492	6 622	19 904	20 041	16 872	16 968	23 131	23 291	20 801	21 397	21 134	21 246	17 280	19 855
Plumbers, pipefitters, and steamfitters	13 300	13 046	20 285	12 835	17 506	18 048	11 220	9 982	12 980	12 991	12 991	16 371	14 362	14 742	16 914	17 522
Other construction trades	10 757	10 404	12 583	10 149	12 617	13 074	10 708	11 243	20 162	20 562	18 394	18 339	18 438	18 678	17 582	16 426

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Furniture and fixtures				Stone, clay, glass, and concrete products				Primary iron and steel industries				Primary nonferrous industries			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extrusive occupations	11 840	11 207	15 005	—	15 037	15 650	10 291	12 748	16 090	16 398	18 411	10 257	20 793	21 633	20 731	18 590
Precision production occupations	12 486	12 804	9 541	11 489	18 126	18 508	14 136	13 941	22 421	22 421	17 745	16 909	19 574	20 079	15 669	17 378
Supervisors, production occupations	15 301	15 621	11 980	13 635	19 506	19 851	15 148	15 839	24 431	24 431	21 522	19 818	21 485	21 979	17 285	17 378
Precision metalworking occupations	13 190	13 545	10 171	12 102	16 776	17 144	12 896	13 524	18 428	18 428	17 524	16 613	17 534	17 928	14 574	14 613
Tool and die makers	16 082	16 708	8 141	14 561	16 904	16 958	15 047	15 145	18 387	18 387	17 243	17 100	18 272	18 478	15 539	13 747
Machinists	10 527	10 646	10 646	10 646	17 782	17 724	12 570	13 025	17 325	17 325	13 929	14 019	17 202	17 767	14 046	13 893
Sheet metal workers	16 521	16 500	13 759	16 376	17 245	17 204	8 709	10 025	16 401	17 325	16 520	11 463	16 071	16 880	15 623	20 055
Other precision metal workers	12 706	12 575	4 638	10 819	16 160	16 208	16 150	19 479	19 348	19 348	16 442	18 870	17 661	17 707	17 393	20 055
Precision textile, apparel, and furnishings machine workers	10 745	11 036	8 589	10 345	7 727	7 348	7 962	10 859	13 858	12 922	16 938	—	17 781	17 689	—	18 285
Precision food production occupations	9 613	10 284	8 427	8 846	11 097	10 310	15 226	—	21 710	22 373	5 432	10 506	15 368	16 262	9 175	15 918
Precision inspectors, testers, and related workers	11 352	12 127	6 635	—	15 641	15 452	17 287	—	21 710	22 373	5 432	20 951	14 412	14 514	14 568	12 030
Plant and system operators	19 201	19 508	9 467	15 005	19 689	19 946	17 887	17 664	22 824	23 279	20 862	18 120	21 498	21 720	22 890	17 493
Other precision production occupations	10 694	10 888	8 267	10 806	12 083	12 083	10 101	8 259	13 819	14 439	12 369	11 515	12 467	13 026	11 330	8 832
Operators, fabricators, and laborers	9 439	9 796	8 232	8 318	13 163	13 620	11 055	11 221	17 194	17 867	15 077	15 065	14 793	15 290	12 715	12 504
Machine operators, assemblers, and inspectors	9 408	9 711	8 386	8 406	13 121	13 557	11 295	10 921	16 988	17 665	14 865	14 477	14 652	15 103	12 884	12 171
Machine operators and tenders, except precision	9 475	9 791	8 277	8 529	13 233	13 623	11 657	11 214	16 976	17 688	14 894	14 458	14 702	15 130	13 054	12 245
Metalworking and plastic working machine operators	9 118	9 355	8 621	7 722	12 066	12 240	10 961	10 930	17 847	17 847	14 393	13 762	14 337	14 669	12 856	11 621
Fabricating machine operators, n.e.c.	10 757	11 044	8 666	10 317	12 024	12 012	—	5 637	16 982	17 963	13 621	13 531	13 488	13 875	11 834	11 686
Metal and plastic processing and woodworking machine operators	9 170	9 301	8 208	9 600	12 567	12 856	11 654	10 358	16 746	17 124	15 777	14 587	13 831	14 191	12 090	11 815
Printing machine operators	8 717	9 016	10 574	4 125	11 659	12 435	5 471	11 265	15 465	15 170	16 687	11 081	14 601	14 670	15 648	7 274
Textile machine operators	8 373	8 013	11 457	7 092	11 572	12 915	6 298	10 533	18 341	19 003	14 039	22 005	13 032	13 564	12 181	7 148
Textile sewing machine operators	9 930	10 503	9 657	7 679	12 314	13 015	—	12 240	20 947	23 787	8 987	22 411	14 520	15 522	11 605	11 841
Laundry and dry cleaning machine operators	5 234	7 747	—	—	15 123	18 460	9 005	—	17 009	17 931	12 005	—	8 242	7 505	—	9 505
Packaging and filling machine operators	9 309	9 712	11 597	10 163	13 474	13 804	12 524	10 842	16 408	18 827	10 232	7 769	14 369	14 680	12 920	—
Furnace, kiln, and oven operators, except food	10 507	9 566	9 508	8 735	15 109	15 432	12 453	12 660	18 024	18 920	15 185	17 289	17 025	17 543	14 913	15 102
Other specified machine operators	9 308	9 366	8 579	8 527	12 824	13 195	11 253	11 070	15 932	16 666	13 926	13 412	14 674	15 158	12 212	13 533
Miscellaneous and not specified machine operators	9 929	10 550	7 901	8 538	13 456	13 948	11 805	11 321	16 907	17 555	15 157	14 476	14 317	14 768	12 833	11 419
Fabricators, assemblers, and hand working occupations	9 193	9 466	8 529	8 187	12 480	13 050	9 854	10 013	16 109	16 720	13 908	13 730	14 238	14 945	11 526	11 422
Welders and cutters	11 256	11 758	9 260	9 719	14 800	15 423	10 344	11 855	16 512	17 130	13 976	14 319	16 216	16 441	13 849	14 363
Solders and brazers	6 974	7 151	3 999	5 714	11 794	12 562	9 005	11 405	8 391	8 391	8 053	6 809	15 649	15 123	13 335	16 305
Assemblers	8 410	8 972	4 823	7 971	11 381	12 356	9 016	8 710	15 537	15 041	13 516	12 729	11 787	12 405	9 798	9 062
Hand working occupations	8 410	8 972	4 823	7 971	11 381	12 356	9 016	8 710	15 537	15 041	13 516	12 729	11 787	12 405	9 798	9 062
Production inspectors, testers, samplers, and weighers	10 634	10 848	8 726	10 589	13 919	14 374	11 443	11 151	19 173	19 615	16 925	18 221	14 769	15 010	13 072	13 084
Graders and sorters, except agricultural	7 568	8 336	4 455	134	11 406	12 631	9 399	7 752	14 669	14 107	15 326	17 559	8 421	10 573	4 731	—
Other production inspectors, testers, samplers, and weighers	10 811	10 986	9 184	10 955	14 126	14 500	11 737	11 657	19 270	19 721	16 980	18 269	14 872	15 063	13 498	13 288
Transportation and material moving occupations	11 463	12 159	8 958	9 856	14 450	14 897	11 592	13 319	19 064	19 706	16 782	18 026	16 679	17 390	13 274	15 752
Transportation occupations	12 573	13 352	9 739	9 881	14 707	15 158	11 522	13 684	19 288	19 619	16 237	16 207	16 679	17 759	14 386	15 287
Motor vehicle operators	12 555	13 378	9 739	9 808	14 688	15 144	11 508	13 677	19 472	18 200	15 139	14 017	16 941	17 465	14 276	15 466
Truck drivers	12 593	13 430	9 766	9 702	14 690	15 143	11 500	13 660	19 552	18 200	15 342	13 948	17 068	17 560	14 499	15 930
Driver-sales workers	12 093	13 201	7 676	12 005	13 112	13 646	8 005	13 638	12 743	12 743	17 064	—	10 606	10 850	—	9 505
Other motor vehicle operators	10 905	11 035	10 529	12 522	15 741	16 802	12 247	14 830	16 324	16 324	11 373	15 082	13 746	15 088	9 467	15 137
Rail and other transportation occupations	18 086	17 324	—	22 805	16 895	16 609	15 652	20 005	21 924	22 354	19 963	22 666	21 226	21 591	18 063	19 147
Material moving equipment operators	9 787	10 261	7 714	8 826	14 477	14 708	11 694	12 864	19 203	19 840	18 644	18 448	16 458	17 239	12 897	15 929
Supervisors, material moving equipment operators	13 387	13 544	11 345	4 167	16 144	17 508	3 385	14 005	25 392	25 695	22 574	25 005	24 124	24 506	22 089	21 275
Crane, hoist, and winch operators	13 228	13 449	12 296	8 855	16 515	16 818	14 913	12 562	20 376	21 060	17 846	19 673	19 042	19 722	14 917	18 618
Excavating, grading, and dozer machine operators	5 136	5 136	—	4 005	14 934	15 234	12 715	13 959	18 299	17 573	20 683	15 197	20 007	19 701	21 500	20 071
Other material moving equipment operators	9 675	10 164	7 624	10 019	13 684	14 123	11 287	12 837	17 143	17 697	15 285	16 562	14 801	15 559	11 791	14 649
Handriers, equipment cleaners, helpers, and laborers	8 104	8 483	6 984	7 001	11 620	12 079	9 908	9 931	16 109	16 756	14 190	14 828	13 745	14 255	11 504	11 767
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	10 028	10 964	3 005	7 034	19 874	21 059	16 036	—	45 518	58 310	14 668	—	25 858	22 641	—	—
Helpers, craft and production	7 187	7 381	6 987	7 034	11 816	11 939	11 583	10 550	17 742	18 399	15 292	15 744	14 748	15 426	11 126	12 887
Construction laborers	10 285	10 547	9 580	16 449	11 816	11 816	8 536	10 188	15 280	15 938	15 285	15 968	12 981	13 203	11 260	9 280
Freight, stock, and material handlers	7 738	8 153	6 049	6 560	12 323	12 792	10 375	10 086	17 770	18 659	14 636	17 232	13 787	14 330	11 147	12 460
Garage and service station occupations, and equipment cleaners	9 119	9 522	10 505	6 704	12 764	13 615	10 177	9 977	15 823	15 944	16 045	14 902	14 148	14 620	10 512	15 880
Hand packers and packagers	8 321	8 598	7 924	6 911	11 827	12 192	10 577	8 904	16 301	16 890	13 738	17 027	13 210	13 331	12 349	11 946
Laborers, except construction	8 301	8 732	7 069	7 103	11 217	11 682	9 503	10 097	15 371	15 923	13 909	14 155	13 522	14 062	11 698	10 947

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Furniture and fixtures				Stone, clay, glass, and concrete products				Primary iron and steel industries				Primary nonferrous industries			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over	7 485	7 650	6 581	7 036	9 219	9 310	8 911	7 370	12 376	12 433	12 422	10 286	10 298	10 493	9 333	8 983
Managerial and professional specialty occupations	12 031	12 197	9 029	9 602	11 174	11 251	10 690	8 175	15 667	15 880	12 709	11 686	14 726	14 829	11 248	16 457
Executive, administrative, and managerial occupations	12 432	12 551	9 001	10 843	12 919	13 057	11 362	9 689	15 294	15 526	12 021	9 976	14 752	14 857	9 157	16 020
Officials and administrators, public administration	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Financial managers	13 319	13 319	—	10 505	13 720	14 406	4 319	7 232	12 609	12 661	7 025	4 005	16 734	15 742	—	34 187
Managers, marketing, advertising, and public relations	13 427	13 299	—	8 845	12 688	12 798	—	3 630	13 955	14 382	—	—	16 258	16 258	—	5 725
Administrators, education and related fields	—	—	—	—	15 005	15 005	—	—	19 505	19 505	—	—	11 538	11 538	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	11 248	11 407	—	9 619	14 900	14 838	—	12 647	15 000	14 892	21 065	—	14 826	14 729	13 505	18 186
Managers and administrators, n.e.c.	13 285	13 495	10 792	11 047	13 091	13 152	14 823	9 671	16 524	16 951	9 975	9 652	16 401	16 401	7 958	12 371
Salaries	13 391	13 509	10 792	11 047	14 884	15 066	14 823	9 980	16 731	17 147	9 975	15 255	16 241	16 612	7 958	12 371
Self-employed	12 242	13 359	—	—	4 975	4 924	—	4 005	6 305	6 343	—	4 672	10 708	10 708	—	—
Management related occupations	10 840	10 845	6 392	11 296	12 428	12 613	10 204	11 038	14 854	14 999	13 171	11 353	13 531	13 599	9 732	14 779
Accountants and auditors	10 914	10 845	7 899	13 977	12 058	12 299	8 957	14 779	14 632	14 632	16 050	7 840	12 836	12 868	9 126	13 449
Personnel, training, and labor relations specialists	10 383	10 506	5 505	10 141	13 731	13 972	10 588	12 005	15 847	16 177	14 154	18 700	16 418	16 992	9 544	15 278
Buyers and purchasing agents	10 315	10 366	2 897	9 615	11 835	11 801	14 775	4 729	14 143	14 248	—	—	12 270	12 246	15 005	—
Inspectors and compliance officers	6 670	5 525	8 005	5 525	13 605	13 605	—	—	12 959	12 959	—	—	9 151	9 151	—	—
Other management related occupations	14 108	14 108	—	—	14 584	14 778	8 005	—	15 883	18 258	2 918	—	13 996	13 996	—	—
Professional specialty occupations	10 322	10 615	9 092	3 158	8 297	8 269	9 377	6 956	16 362	16 547	13 798	15 523	14 662	14 757	14 123	17 614
Engineers, architects, and surveyors	8 015	8 980	—	1 147	13 062	12 866	12 887	—	16 257	16 757	13 665	20 665	13 349	13 253	15 236	21 005
Architects	—	—	—	—	9 162	11 905	7 105	—	—	—	—	—	—	—	—	—
Engineers	8 931	8 980	—	855	28 850	40 005	15 778	—	16 257	16 757	13 665	20 665	13 349	13 253	15 236	21 005
Civil engineers	8 005	8 005	—	—	12 175	12 175	—	—	15 518	15 518	—	—	6 934	6 934	—	—
Electrical and electronic engineers	8 636	8 636	—	—	12 989	12 871	—	—	13 552	13 925	—	—	13 453	13 453	—	—
Industrial engineers	22 315	22 315	—	855	21 005	21 005	—	—	15 843	15 874	13 366	—	13 233	13 201	11 005	—
Mechanical engineers	7 289	7 289	—	—	12 005	12 005	—	—	8 880	8 880	—	—	9 219	9 219	—	—
Other engineers	—	—	—	—	12 161	11 547	27 505	—	17 072	18 238	13 866	20 665	14 263	14 185	16 505	21 005
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer systems analysts and scientists	12 985	12 985	—	—	18 427	18 732	13 605	—	19 030	19 075	18 175	—	17 850	17 850	—	—
Operations and systems researchers and analysts	15 179	15 179	—	—	15 948	15 948	—	—	17 025	17 025	—	—	14 288	15 815	—	—
Mathematical scientists	10 280	10 280	—	—	12 875	12 875	—	—	16 047	16 047	—	—	19 312	19 312	9 236	—
Natural scientists	4 678	4 678	—	—	6 818	6 818	5 008	7 727	16 756	16 756	18 329	—	14 347	14 684	—	8 405
Chemists, except biochemists	—	—	—	—	1 264	1 264	—	—	16 737	16 737	18 329	—	13 711	14 888	—	8 405
Other natural scientists	4 678	4 678	—	—	1 264	1 264	—	—	15 680	15 680	—	—	13 265	13 265	—	—
Health diagnosing occupations	15 005	15 005	—	—	2 005	2 005	—	—	16 101	16 101	—	—	15 125	15 157	—	—
Health assessment and treating occupations	13 154	13 154	—	—	1 663	1 663	—	—	16 207	16 115	18 940	14 813	15 325	15 325	14 193	19 396
Registered nurses	13 222	13 222	—	—	12 586	11 698	17 088	13 905	16 207	16 115	18 940	14 813	15 325	15 325	14 193	19 396
Other health assessment and treating occupations	11 882	11 882	—	—	5 896	7 062	4 55	—	7 323	7 323	—	—	10 475	10 475	—	—
Teachers, except postsecondary	13 166	13 166	—	—	5 544	5 544	—	5 465	19 005	19 005	—	—	11 153	7 691	14 005	—
Social scientists and urban planners	9 480	9 480	—	—	17 482	17 482	—	—	13 931	17 768	—	—	15 805	15 805	—	—
Social and recreation workers	8 170	9 235	7 105	—	12 236	9 005	15 005	—	—	—	—	—	—	—	—	—
Lawyers and judges	—	—	—	—	22 213	22 213	—	—	16 578	16 578	—	—	32 588	32 588	—	—
Writers, artists, entertainers, and athletes	10 359	10 477	9 305	6 169	6 348	6 312	8 472	6 416	16 452	15 627	30 005	—	14 297	14 664	16 485	16 745
Other professional specialty occupations	7 653	7 653	—	—	9 374	9 374	—	—	17 482	19 217	475	—	13 988	12 741	—	—
Technical, sales, and administrative support occupations	7 990	8 014	7 411	6 636	9 453	9 483	9 266	8 314	12 543	12 494	13 522	11 590	10 379	10 455	9 660	9 329
Technicians and related support occupations	8 531	8 476	14 005	7 350	11 162	11 297	11 352	7 713	14 661	14 605	13 033	13 957	12 409	12 476	12 398	10 514
Health technologists and technicians	10 287	10 287	—	—	8 538	8 261	11 952	—	12 088	14 178	13 853	—	9 277	9 277	—	—
Licensed practical nurses	10 287	10 287	—	—	8 538	8 261	11 952	—	12 088	14 178	13 853	—	9 277	9 277	—	—
Engineering health technologists and technicians	—	—	—	—	11 073	10 386	12 905	—	17 093	19 487	12 503	—	9 605	9 605	—	—
Engineering and science technicians	7 725	7 621	14 005	6 815	10 895	11 133	10 021	7 840	14 509	14 730	13 579	13 957	12 230	12 281	12 159	8 491
Electrical and electronic technicians	8 348	8 138	—	8 005	30 969	30 969	—	—	15 515	16 016	12 005	—	18 535	18 535	—	—
Industrial and mechanical engineering technicians	7 905	7 905	—	—	6 665	6 665	—	—	15 649	15 293	18 505	—	13 255	13 255	—	—
Drafting and surveying technicians	7 011	6 897	14 005	6 382	9 611	9 876	10 398	1 105	11 894	11 318	16 745	—	9 276	10 097	—	10 635
Other engineering and science technicians	9 647	9 647	—	—	10 697	10 892	9 974	8 200	15 014	15 544	13 079	13 957	12 551	12 445	13 601	8 253
Technicians, except health, engineering, and science	9 652	9 620	—	12 705	11 938	11 848	14 773	6 718	15 058	15 006	20 390	—	12 881	12 965	13 859	13 980
Airplane pilots and navigators	—	—	—	—	9 025	9 025	—	—	6 505	6 505	—	—	—	—	—	—
Air traffic controllers and broadcast equipment operators	8 005	8 005	—	—	13 065	12 838	—	—	13 827	10 532	19 005	—	8 295	8 295	—	—
Computer programmers	9 423	9 423	—	—	10 281	10 297	14 711	6 718	15 455	15 463	22 005	—	12 979	13 408	11 915	13 235
Other technicians, except health, engineering, and science	10 381	10 286	—	12 705	10 281	10 297	14 711	6 718	14 456	14 456	—	—	12 832	12 496	16 883	14 770

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Furniture and fixtures				Stone, clay, glass, and concrete products				Primary iron and steel industries				Primary nonferrous industries			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Technical, sales, and administrative support occupations—Con																
Sales occupations	9 361	9 382	7 814	4 083	9 010	9 057	8 584	6 555	13 678	13 764	12 957	9 802	11 045	11 192	10 910	10 385
Supervisors and proprietors, sales occupations	8 383	8 487	8 410	7 792	10 767	10 592	10 386	12 005	15 120	14 318	18 005	—	19 010	19 010	—	—
Salaried	8 823	8 920	8 410	7 792	12 062	12 107	10 386	12 005	15 120	14 318	18 005	—	19 010	19 010	—	—
Self-employed	11 616	11 439	14 005	—	4 746	4 733	6 005	—	18 820	18 820	—	—	—	—	—	—
Sales representatives, finance and business services	9 919	9 916	8 833	4 068	9 223	9 233	10 587	6 830	13 945	14 077	11 380	9 802	11 486	11 372	15 208	11 248
Sales representatives, commodities, except retail	5 198	5 394	3 882	1 299	6 708	6 976	6 146	3 383	11 414	11 414	—	—	8 624	8 624	—	—
Sales workers, retail and personal services	4 162	4 196	6 005	1 299	6 570	6 904	6 146	4 842	12 520	12 520	—	—	8 337	8 337	—	—
Other sales occupations, retail and personal services	4 840	7 220	1 405	—	7 147	7 147	—	1 195	9 646	9 646	—	—	7 677	8 741	—	—
Sales related occupations	7 185	7 185	—	—	6 481	6 481	—	—	—	—	—	—	4 461	3 691	—	5 725
Administrative support occupations, including clerical	7 880	7 906	7 363	6 795	9 393	9 423	9 127	8 470	12 410	12 353	13 487	11 535	10 228	10 304	9 424	9 161
Supervisors, administrative support occupations	12 824	12 980	10 076	15 384	13 203	13 144	13 151	9 622	17 148	17 155	18 613	15 123	14 688	14 740	13 403	12 329
Computer equipment operators	8 475	8 446	10 354	6 441	10 857	10 622	14 033	9 846	12 499	12 826	10 500	12 486	10 089	10 468	9 547	9 338
Secretaries, stenographers, and typists	7 888	7 911	7 834	5 138	9 071	9 168	7 513	9 296	12 002	12 015	12 037	11 706	10 375	10 429	9 242	8 623
Secretaries	8 041	8 047	8 701	5 211	9 272	9 354	8 046	9 407	12 005	12 057	11 492	11 714	10 404	10 638	9 523	9 321
Stenographers and typists	6 475	6 554	5 847	4 689	6 922	7 090	5 132	6 709	11 984	11 796	13 211	11 683	8 314	8 413	8 283	6 509
Receptionists	6 368	6 343	7 268	5 847	6 583	6 550	5 195	7 241	8 331	8 281	8 697	6 736	7 422	7 537	6 443	7 286
Other information clerks	8 041	8 136	7 155	6 827	9 235	9 147	10 872	8 005	14 240	13 918	17 061	8 742	6 576	6 067	12 005	5 585
File clerks	3 452	3 292	4 014	4 112	12 293	13 031	8 803	7 443	9 145	8 913	10 881	8 742	7 904	8 291	6 441	5 985
Other records processing occupations, except financial	7 768	7 931	6 932	6 012	10 313	10 328	9 957	8 115	14 511	14 033	19 256	12 819	9 831	10 904	11 013	8 953
Bookkeepers, accounting, and auditing clerks	8 409	8 399	7 066	7 879	9 295	9 277	9 822	8 125	11 782	11 730	13 592	10 589	9 910	9 914	9 236	9 702
Payroll and timekeeping clerks	8 345	8 244	10 923	8 660	9 203	9 243	10 668	9 128	10 802	10 802	13 808	10 468	9 443	9 569	16 672	9 226
Other financial records processing occupations	8 171	8 096	12 661	6 321	9 353	9 490	7 079	7 095	13 336	13 349	14 078	7 468	10 348	10 424	10 473	9 226
Telephone operators	7 523	7 629	5 830	2 005	8 216	8 085	10 869	7 563	10 873	10 919	9 630	7 505	9 381	9 537	8 505	8 910
Mail and message distributing occupations	6 823	6 780	6 941	6 631	7 421	7 487	11 995	7 563	10 967	11 014	10 078	—	6 401	6 484	5 622	—
Production coordinators and expeditors	6 608	6 678	5 861	7 384	7 787	7 841	11 245	7 563	15 435	15 435	16 463	16 664	11 191	11 240	11 317	12 040
Traffic, shipping, and receiving clerks	7 579	7 619	5 842	8 767	8 241	8 683	9 816	5 655	12 340	12 340	13 987	7 105	10 368	10 447	10 369	12 040
Stock and inventory clerks	7 675	7 886	5 829	6 991	9 277	10 722	10 232	8 809	13 406	13 365	14 919	18 880	10 673	10 716	9 813	11 713
Other material recording, scheduling, and distributing clerks	6 072	6 304	5 730	14 005	10 399	10 772	10 358	13 858	13 570	13 567	13 585	20 765	13 835	12 369	11 713	7 218
Adapters and investigators	7 897	8 007	10 033	11 075	10 846	10 772	8 889	13 982	12 561	12 561	14 130	20 305	12 347	12 347	11 959	12 005
Data-entry keyers	7 502	7 441	6 438	4 676	8 843	8 853	9 220	7 521	12 630	12 630	12 885	12 032	9 366	9 366	10 723	9 938
Other administrative support occupations	7 084	7 151	5 925	5 995	8 757	8 811	7 620	7 521	12 630	12 630	12 885	12 032	9 366	9 366	10 723	9 938
Service occupations	5 608	5 818	5 204	4 277	7 526	7 707	6 807	7 024	10 996	10 922	10 996	12 378	8 865	9 071	8 699	7 664
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	4 765	4 787	4 005	—	9 590	9 534	10 805	—	15 040	14 789	15 813	11 069	10 732	10 206	13 536	12 077
Guards	4 765	4 787	4 005	—	9 316	9 245	10 805	—	14 791	14 493	15 813	11 069	10 732	10 206	13 536	12 077
Other protective service occupations	—	—	—	—	16 777	16 777	—	—	27 905	27 905	—	—	—	—	—	—
Service occupations, except protective and household	5 645	5 884	5 209	4 277	7 380	7 549	6 737	7 024	10 502	10 303	10 766	12 604	8 576	8 870	8 141	6 576
Food preparation and service occupation	6 039	5 915	7 823	6 005	5 784	5 548	14 262	—	6 098	6 162	5 964	—	5 185	4 645	11 324	3 325
Health service occupations	8 171	9 078	2 605	—	10 642	12 728	4 003	—	11 082	12 233	5 082	—	9 647	9 173	10 430	3 325
Cleaning and building service occupations, except household	5 561	5 826	5 202	3 670	7 566	7 751	6 898	7 332	11 349	11 091	11 785	12 132	9 184	9 986	7 661	7 006
Personal service occupations	4 723	4 251	4 913	7 469	5 208	4 960	5 711	3 645	14 210	11 612	18 685	20 685	6 395	6 395	—	8 274
Farming, forestry, and fishing occupations	5 158	4 678	6 585	—	6 891	7 768	6 095	6 005	9 219	5 562	13 688	—	6 486	6 910	5 005	—
Precision production, craft, and repair occupations	7 255	7 427	6 617	6 637	9 580	9 616	10 870	6 958	14 134	14 454	13 593	8 508	11 633	12 139	9 571	7 923
Mechanics and repairers	8 153	8 436	6 256	6 242	11 472	12 199	6 152	6 108	16 550	16 386	17 117	11 545	12 751	13 051	11 265	7 923
Supervisors, mechanics, and repairers	7 287	—	—	—	19 155	19 155	—	—	25 055	25 055	—	—	26 677	26 677	—	25 005
Automobile mechanics, including body	8 787	9 884	4 290	—	9 255	11 521	475	—	22 417	22 417	—	—	6 559	8 449	2 305	—
Industrial machinery repairers	—	—	—	—	12 990	13 520	13 588	—	19 016	20 057	17 150	20 505	14 651	15 088	12 287	13 225
Electronic repairers, communications and industrial equipment	13 143	13 143	—	—	13 505	13 505	—	—	21 950	20 005	23 895	—	8 194	8 194	—	8 005
Heating, air conditioning, and refrigeration mechanics	7 765	7 765	—	—	6 505	6 505	—	—	21 950	20 005	23 895	—	8 194	8 194	—	8 005
Other mechanics and repairers	7 647	7 642	7 472	5 718	10 279	10 955	3 021	6 108	15 719	15 400	16 800	10 265	12 031	12 223	11 513	9 320
Construction trades	6 647	6 012	9 439	8 230	6 881	6 559	10 967	4 226	13 599	14 331	12 252	4 927	13 713	14 706	7 312	3 205
Supervisors, construction occupations	6 005	6 005	—	—	6 987	6 987	—	—	21 005	21 005	—	—	17 315	10 315	—	—
Supervisors	5 007	5 528	4 005	8 882	9 819	9 330	12 467	5 005	10 386	10 700	10 236	—	7 797	10 315	4 963	—
Electricians	8 103	8 096	8 205	8 882	11 229	11 229	—	—	18 297	19 488	16 440	7 884	16 496	17 184	11 661	—
Painters, construction and maintenance	8 962	6 309	16 393	6 626	5 103	5 449	4 695	9 443	18 297	19 488	16 440	7 884	16 496	17 184	11 661	—
Plumbers, pipefitters, and steamfitters	—	—	—	—	4 071	4 071	—	—	10 977	11 919	9 355	3 405	10 870	9 579	8 605	—
Other construction trades	7 199	7 276	6 636	5 820	7 000	6 572	12 043	7 242	12 635	12 504	12 988	3 461	12 057	12 057	—	3 205

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Furniture and fixtures				Stone, clay, glass, and concrete products				Primary iron and steel industries				Primary nonferrous industries			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over—Con																
Precision production, craft, and repair occupations—Con																
Extraction occupations	9 349	14 223	4 475	—	13 005	17 732	6 505	—	5 028	6 704	—	—	7 077	7 077	—	—
Precision production occupations	7 240	7 448	6 480	6 486	9 833	9 841	11 283	7 438	13 419	13 873	12 040	8 649	13 419	11 749	9 349	7 539
Supervisors, production occupations	10 048	10 325	7 808	7 808	11 930	11 945	12 169	10 148	15 621	16 035	14 353	9 714	13 245	14 534	12 361	8 470
Precision metalworking occupations	6 046	5 894	8 184	4 434	7 806	7 955	8 135	5 036	10 778	10 725	10 260	8 970	8 389	8 482	9 268	6 362
Tool and die makers	12 778	12 778	—	—	8 816	8 816	—	7 005	14 255	13 737	16 689	8 921	8 715	8 765	10 865	2 335
Machinists	6 153	5 902	9 040	4 434	8 884	9 098	9 701	4 922	9 942	9 962	10 152	10 672	8 528	8 093	6 839	7 980
Sheet metal workers	3 581	3 581	—	—	—	—	—	—	9 410	7 165	11 805	7 646	6 398	6 398	—	—
Other precision metal workers	6 008	6 055	5 774	—	5 092	4 596	6 680	—	10 173	10 274	7 805	—	8 241	7 835	20 005	10 337
Precision textile, apparel, and furnishings machine workers	7 168	7 277	6 896	7 224	5 117	6 854	10 135	2 564	5 130	7 561	2 005	—	4 405	4 405	—	—
Precision food production occupations	13 747	7 026	30 852	—	7 168	6 364	—	—	7 781	11 672	—	—	9 371	9 815	6 750	6 910
Precision inspectors, testers, and related workers	8 585	8 585	—	—	10 950	8 107	13 637	13 145	13 728	20 374	14 717	—	11 935	15 110	8 005	7 218
Plant and system operators	6 572	6 572	—	—	15 227	14 462	22 005	—	19 728	20 307	15 005	—	8 332	8 546	5 972	—
Other precision production occupations	6 211	6 360	5 696	4 841	6 882	6 698	10 301	5 417	8 349	8 827	8 611	5 143	—	—	—	—
Operators, fabricators, and laborers																
Machine operators, assemblers, and inspectors	6 983	7 095	6 506	7 099	8 774	8 844	8 739	7 122	11 273	11 133	12 005	9 221	9 412	9 552	9 185	8 430
Machine operators and tenders, except precision	6 884	7 049	6 220	6 205	8 480	8 728	8 752	6 947	10 588	10 504	11 823	8 450	9 384	9 510	9 181	8 803
Machine operators and plastic working machine operators	6 978	7 097	6 331	6 712	8 270	8 357	8 313	6 351	10 589	10 381	11 403	8 235	9 148	9 240	9 032	7 595
Food and kindred product machine operators	6 517	6 671	5 827	4 918	8 274	8 240	8 798	6 697	9 683	9 522	10 356	7 714	9 448	9 791	9 776	8 277
Textile and apparel machine operators, n.e.c.	6 817	6 990	5 873	7 343	7 983	7 081	9 885	6 697	11 905	11 697	23 255	7 757	7 991	7 683	7 778	7 986
Metal and plastic processing and woodworking machine operators	7 096	7 194	6 628	7 321	8 227	8 157	8 785	5 498	10 435	9 984	12 789	9 437	9 864	9 879	10 529	9 338
Printing machine operators	5 961	6 822	3 900	6 065	7 690	8 087	8 941	2 490	10 262	10 262	6 065	5 005	9 078	9 089	8 753	8 358
Textile machine operators	5 659	5 922	4 836	4 731	9 242	9 598	8 696	1 899	11 900	12 019	8 003	16 305	10 487	11 791	8 058	7 595
Textile sewing machine operators	7 353	7 328	7 270	7 007	7 327	7 266	7 813	6 477	5 449	7 090	3 850	—	5 697	5 958	3 383	—
Laundry and dry cleaning machine operators	3 978	6 069	1 302	—	—	—	—	—	—	—	—	—	9 945	9 945	—	—
Packaging and filling machine operators	7 311	6 872	9 239	8 158	9 257	9 268	10 074	6 594	11 521	12 583	7 273	16 061	9 328	9 328	—	—
Furnace, kiln, and oven operators, except food	12 071	11 549	15 085	4 388	8 900	8 990	10 943	4 738	15 165	15 214	15 889	7 467	10 588	11 188	8 893	8 788
Other specified machine operators	6 799	6 950	6 311	4 388	7 668	7 824	6 967	5 937	10 439	9 496	13 105	10 693	8 436	8 356	8 757	8 859
Miscellaneous and not specified machine operators	6 877	7 113	6 120	7 072	8 462	8 588	8 395	6 702	10 670	10 571	11 441	7 824	9 032	9 167	8 791	7 202
Fabricators, assemblers, and hand working occupations																
Welders and cutters	6 563	6 866	5 683	5 252	7 370	7 264	8 308	6 602	9 660	9 424	11 608	8 592	9 159	9 364	8 863	11 293
Solders and brazers	7 486	7 870	6 526	5 004	7 923	8 203	7 658	6 699	10 681	10 875	11 780	12 184	8 220	8 101	9 009	8 562
Assemblers	7 593	8 222	6 795	6 520	6 795	6 132	7 387	11 505	7 582	7 523	—	12 005	6 305	6 305	7 005	5 862
Assemblers	6 501	6 794	5 645	5 244	8 082	8 037	8 429	7 022	9 271	9 041	11 529	7 942	9 329	9 604	8 846	11 796
Hand working occupations	7 020	7 474	5 657	5 945	5 854	5 853	7 806	4 998	7 479	6 549	11 133	9 545	10 535	10 499	10 172	6 091
Production inspectors, testers, samplers, and weighers	7 414	7 342	7 895	6 614	10 188	10 243	9 731	9 035	12 361	12 258	13 044	9 607	10 540	10 583	10 773	8 126
Graders and sorters, except agricultural	5 579	5 827	3 660	—	8 248	8 348	6 248	9 591	13 599	14 854	9 051	16 005	7 549	7 511	8 005	—
Other production inspectors, testers, samplers, and weighers	7 488	7 407	8 024	6 614	10 289	10 338	9 910	9 006	12 303	12 137	13 250	9 133	10 595	10 642	8 126	8 126
Transportation and material moving occupations																
Transportation occupations	8 023	8 130	7 710	4 209	10 456	11 026	8 466	8 705	13 946	13 901	13 777	14 772	11 567	11 697	11 061	12 966
Motor vehicle operators	9 290	9 303	9 243	—	10 720	11 171	8 050	13 200	12 462	12 766	12 431	8 720	12 048	11 382	16 388	14 814
Truck drivers	9 254	9 258	9 243	—	10 737	11 212	8 050	13 200	12 462	12 766	12 431	8 720	12 048	11 382	16 388	14 814
Other motor vehicle operators	3 670	3 670	—	—	6 763	7 185	5 276	—	11 897	11 556	12 508	10 345	12 756	12 117	16 388	15 778
Other motor vehicle operators	10 228	10 228	—	—	5 136	5 136	—	—	9 205	9 205	9 072	5 005	1 205	1 205	—	—
Rail and water transportation occupations	7 728	7 856	7 334	4 209	10 256	10 256	8 622	8 273	18 616	17 379	26 005	15 962	8 358	8 358	—	—
Material moving equipment operators	—	—	—	—	10 637	10 984	10 465	—	14 205	14 074	14 065	15 962	11 485	11 753	10 541	12 193
Supervisors, material moving equipment operators	—	—	—	—	12 905	12 905	9 505	8 005	19 750	19 750	—	16 505	16 505	16 505	—	—
Crane, hoist, and winch operators	17 105	17 105	—	—	10 393	10 460	—	—	15 564	16 191	14 022	16 383	13 945	14 293	11 753	24 005
Excavating, grading, and dozer machine operators	9 020	6 020	—	—	13 826	13 060	16 125	8 295	17 005	17 005	—	10 005	10 005	10 005	—	—
Other material moving equipment operators	7 671	7 787	7 334	4 209	10 363	10 975	8 217	8 295	12 549	11 970	14 138	15 335	10 918	10 918	11 267	11 267
Handlers, equipment cleaners, helpers, and laborers																
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	7 697	7 386	8 409	14 956	8 914	9 039	8 722	7 541	11 955	12 208	11 736	10 465	9 060	9 285	8 813	6 699
Helpers, craft and production	11 438	11 438	—	—	11 425	11 425	—	—	15 720	16 290	—	15 611	11 713	11 453	14 147	129
Construction laborers	5 110	5 182	5 150	1 285	8 456	8 951	8 229	—	7 906	8 428	9 550	—	7 005	7 005	8 527	7 636
Craft, stock, and material handlers	2 037	1 889	5 078	2 834	7 890	8 750	4 428	3 005	12 628	12 331	12 751	5 845	9 300	9 625	—	—
Garage and service station attendants, and equipment cleaners	7 116	7 186	7 371	—	8 792	8 861	6 278	5 238	11 224	10 551	13 061	7 005	7 409	7 330	7 584	6 508
Hand packers and packagers	5 422	5 001	6 738	2 285	7 282	7 367	6 536	9 338	11 224	10 551	13 061	7 005	7 409	7 330	7 584	6 508
Hand packers and packagers, except construction	4 821	4 925	6 095	5 760	9 342	9 387	9 416	8 322	10 133	10 892	8 345	5 812	8 601	8 862	8 329	6 508
Laborers, except construction	8 875	8 121	9 715	27 398	8 032	8 369	7 085	6 067	11 972	12 295	11 451	11 972	9 148	9 364	8 643	7 105

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Cont.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Employed males 16 years and over

- Managerial and professional specialty occupations
- Executive, administrative, and managerial occupations
- Officials and administrators, public administration
- Financial managers
- Managers, marketing, advertising, and public relations
- Administrators, education and related fields
- Managers, medicine and health
- Other specified managers
- Managers and administrators, n.e.c.
- Salaries
- Self-employed
- Management related occupations
- Accountants and auditors
- Personnel, training, and labor relations specialists
- Buyers and purchasing agents
- Inspectors and compliance officers
- Other management related occupations
- Professional specialty occupations
- Engineers, architects, and surveyors
- Architects
- Engineers
- Civil engineers
- Electrical and electronic engineers
- Industrial engineers
- Mechanical engineers
- Other engineers
- Surveyors and mapping scientists
- Computer systems analysts and scientists
- Operations and systems researchers and analysts
- Mathematical scientists
- Natural scientists
- Chemists, except biochemists
- Other natural scientists
- Health diagnosing occupations
- Health assessment and treating occupations
- Registered nurses
- Other health assessment and treating occupations
- Teachers, except postsecondary
- Social scientists and urban planners
- Social and recreation workers
- Lawyers and judges
- Writers, artists, entertainers, and athletes
- Other professional specialty occupations
- Technical, sales, and administrative support occupations
- Technicians and related support occupations
- Health technologists and technicians
- Licensed practical nurses
- Other health technologists and technicians
- Engineering and science technicians
- Electrical and electronic technicians
- Industrial and mechanical engineering technicians
- Drafting and surveying technicians
- Other engineering and science technicians
- Technicians, except health, engineering, and science
- Airplane pilots and navigators
- Air traffic controllers and broadcast equipment operators
- Computer programmers
- Other technicians, except health, engineering, and science

Fabricated metal industries				Machinery, except electrical				Electrical machinery, equipment, and supplies				Motor vehicles and motor vehicle equipment			
Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
16 688	17 310	12 184	11 900	18 184	18 601	13 477	13 127	18 439	19 108	12 603	12 197	20 455	21 202	16 776	14 412
29 160	29 460	19 790	21 382	28 152	28 415	21 598	22 760	27 193	27 484	21 086	21 158	31 040	31 415	23 773	22 148
31 441	31 716	20 866	21 757	31 775	32 003	22 853	24 645	30 992	31 282	22 347	22 844	32 812	33 275	23 701	19 734
—	—	—	—	20 005	20 005	—	—	36 235	36 235	—	—	14 355	14 355	—	—
29 621	29 800	18 549	23 614	30 454	30 622	22 677	26 947	31 274	31 462	20 888	26 492	38 029	38 448	23 653	21 358
31 432	31 519	17 012	24 363	33 694	33 775	26 192	29 646	32 948	33 026	28 327	29 198	31 768	31 926	26 462	18 671
65 043	65 043	—	—	29 841	29 841	—	—	28 857	28 857	—	—	22 956	22 956	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
26 415	26 611	20 479	19 147	28 832	28 901	29 261	19 171	27 729	27 836	26 832	21 875	33 966	34 578	25 076	27 393
34 670	34 964	24 402	22 742	34 344	35 169	23 787	26 818	34 082	34 347	24 432	24 758	36 988	37 038	24 368	19 989
35 179	35 488	24 864	22 030	35 324	35 563	24 271	26 894	34 517	34 645	24 368	24 650	37 140	37 645	24 368	20 300
25 869	25 938	9 238	29 831	27 545	27 757	4 715	25 758	26 791	25 549	23 539	27 900	20 660	20 351	—	8 869
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
21 424	21 590	15 620	17 771	21 911	22 044	19 732	18 050	21 948	22 253	17 387	16 579	26 917	26 257	22 895	16 814
20 784	21 077	14 670	16 732	21 485	21 693	18 132	17 852	21 678	22 005	17 414	16 154	26 124	26 417	22 746	17 821
22 472	22 601	17 045	18 362	24 033	24 246	22 229	17 562	23 240	23 740	18 690	15 761	29 052	29 749	24 044	16 915
20 012	20 013	15 433	16 613	19 484	19 507	17 681	15 006	18 780	18 970	14 818	12 966	24 364	24 441	23 474	13 611
21 602	22 246	12 223	28 125	18 470	19 015	13 057	12 005	19 390	19 390	11 805	18 935	22 800	22 868	22 615	24 005
28 632	28 733	17 826	22 986	28 784	28 876	28 888	22 352	30 356	30 866	19 464	36 745	31 182	31 556	20 359	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22 818	22 985	17 567	19 999	23 606	23 741	20 497	20 721	23 759	23 936	19 999	19 645	29 069	29 314	23 852	26 307
22 764	22 917	17 251	20 530	23 371	23 492	19 402	20 706	23 814	23 993	20 240	19 712	28 941	29 120	24 625	24 539
17 132	17 132	—	—	25 289	25 108	25 005	24 005	23 304	23 304	—	—	26 782	26 782	—	28 005
22 781	22 936	17 251	20 530	23 369	23 491	19 411	20 693	23 816	23 995	20 246	19 712	28 945	29 125	24 625	24 502
23 695	24 279	12 136	18 803	24 239	24 603	13 560	14 892	23 075	23 120	13 119	—	28 437	28 769	17 824	6 802
23 059	23 357	11 489	20 288	24 075	24 300	20 961	21 460	24 584	24 763	20 983	19 810	27 670	27 949	23 818	25 582
20 887	20 937	18 444	19 316	21 693	21 769	20 110	19 011	21 219	21 422	17 627	19 342	27 225	27 223	24 102	22 838
23 296	23 540	12 746	23 746	23 789	23 909	18 740	21 955	24 120	24 280	19 167	19 336	29 188	30 083	24 627	26 352
24 052	24 091	23 362	18 362	23 661	23 800	18 222	20 949	23 091	23 260	20 546	20 063	28 183	28 249	26 539	23 398
16 725	16 725	—	—	16 419	16 278	12 005	12 005	13 841	12 088	18 516	—	29 782	29 782	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
23 514	23 567	22 382	27 191	24 392	24 673	21 031	22 909	23 473	23 620	20 149	20 501	27 533	27 902	23 201	24 597
30 129	30 407	22 305	22 305	24 272	24 059	32 572	24 380	22 889	23 028	18 515	18 319	27 838	28 279	18 849	30 005
22 727	23 081	7 005	28 505	27 990	28 183	21 406	25 245	24 406	24 526	16 387	18 005	28 720	28 858	24 862	—
20 586	20 586	17 825	17 825	22 913	23 123	17 539	29 458	24 052	24 561	16 088	19 985	26 307	26 042	24 210	12 862
19 963	20 038	17 825	16 893	21 496	21 580	15 392	30 098	22 510	23 232	14 468	19 985	24 607	24 852	24 210	10 005
22 673	22 283	—	—	26 236	26 603	31 052	27 905	25 834	26 074	18 911	—	31 681	29 676	—	16 535
38 911	38 911	—	—	44 432	46 168	46 005	10 765	59 278	56 542	—	—	52 940	52 114	60 005	92 436
16 810	16 810	—	—	19 765	19 852	—	—	13 609	13 168	18 140	—	22 659	21 331	24 398	—
18 065	18 065	—	—	19 865	19 865	—	—	16 953	16 420	25 005	—	22 319	21 961	24 398	—
11 309	11 309	—	—	19 637	19 833	—	—	10 974	11 163	6 125	—	19 891	19 891	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17 970	18 296	15 318	12 005	21 377	21 550	20 157	19 359	20 517	21 190	12 296	8 851	22 330	22 705	16 577	24 394
25 697	25 830	42 005	13 005	29 658	29 793	25 040	19 250	29 224	29 303	23 346	18 688	31 418	32 753	19 669	—
20 716	20 716	—	—	20 991	20 991	—	—	17 438	17 438	—	—	28 167	28 167	—	—
48 817	48 817	—	—	45 741	45 456	56 575	36 005	47 867	48 484	31 553	32 005	46 811	46 779	48 877	32 505
19 361	19 465	18 182	14 743	21 010	21 118	18 570	16 882	20 352	20 547	19 533	20 034	29 006	29 548	19 778	24 230
17 285	17 285	—	—	25 335	25 975	10 744	16 882	20 934	21 952	7 722	8 005	27 761	31 025	17 467	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17 139	17 494	12 334	12 992	18 161	18 437	14 403	13 891	16 772	17 216	12 713	13 192	21 193	21 631	17 527	16 113
16 517	16 707	12 922	11 005	17 363	17 547	15 100	14 181	15 940	16 240	12 886	14 151	23 232	23 571	18 935	18 047
18 007	18 007	—	—	20 268	20 816	18 368	1 995	20 545	21 252	—	26 005	21 093	21 148	19 245	25 505
16 920	16 920	—	—	19 829	21 829	—	—	19 322	19 322	—	—	29 005	29 005	—	—
18 290	18 290	—	—	19 994	20 610	18 368	1 995	20 619	21 385	—	26 005	20 651	20 679	19 245	25 505
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16 137	16 339	12 500	14 460	15 948	16 135	13 816	13 402	15 375	15 653	12 637	13 689	23 300	23 686	18 546	16 749
17 383	17 524	14 636	19 485	15 585	15 792	13 937	12 896	17 103	15 370	12 596	14 581	20 588	20 660	16 417	16 095
17 089	17 493	12 618	8 699	18 227	18 075	15 690	12 882	17 495	15 737	10 424	12 598	28 599	28 732	22 007	23 936
15 014	15 238	10 976	13 360	15 456	15 695	12 675	12 943	15 472	15 672	10 424	12 846	22 704	23 233	15 635	14 942
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17 580	17 735	14 192	16 206	17 385	17 582	15 024	15 332	16 960	17 238	13 569	11 587	22 054	22 081	19 788	19 788
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18 267	18 376	15 960	15 900</												

¹Persons of Spanish origin may be of any race

Table 2. Mean Earnings (Dollars) in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Fabricated metal industries				Machinery, except electrical				Electrical machinery, equipment, and supplies				Motor vehicles and motor vehicle equipment			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Technical, sales, and administrative support occupations—Con	22 955	23 104	14 659	17 801	24 393	24 518	20 270	19 344	24 292	24 613	17 271	22 485	22 752	19 986	14 694	
	24 656	24 782	12 431	28 232	26 610	26 786	22 124	23 580	24 776	25 361	12 025	25 860	26 560	17 444	13 192	
	24 876	25 026	12 431	28 232	26 577	26 758	22 124	23 580	24 824	25 405	12 025	26 602	26 309	17 444	13 520	
	22 507	22 507	—	—	27 482	27 482	—	—	23 369	24 111	—	32 280	32 280	—	10 505	
	14 219	14 219	—	12 005	20 419	20 419	—	—	24 940	25 327	14 005	21 550	21 245	—	—	
	23 088	23 226	15 117	16 971	24 492	24 616	19 794	19 458	24 480	24 773	18 193	23 126	23 289	23 313	16 675	
	15 265	15 572	13 117	8 968	17 434	17 565	18 547	11 591	19 341	19 460	15 925	18 056	18 400	12 951	10 820	
	13 724	14 724	7 393	13 715	14 663	13 564	19 970	17 005	11 888	12 313	2 005	8 929	15 122	6 828	9 405	
	15 509	15 689	15 865	7 838	17 577	17 740	16 988	11 162	20 420	20 437	17 172	18 153	18 396	16 325	10 889	
	12 853	12 853	—	—	16 945	16 945	—	27 305	26 458	26 458	—	15 324	15 324	—	—	
	14 775	15 093	12 001	11 732	15 751	15 996	13 269	12 520	14 798	15 200	12 053	20 081	20 543	17 034	16 056	
	19 504	19 703	17 862	14 512	20 734	20 863	19 287	16 017	20 746	21 104	15 730	26 703	27 092	22 189	31 392	
	14 819	15 077	13 347	15 135	15 656	16 001	13 382	13 136	15 940	16 344	12 710	21 512	21 825	20 415	15 848	
	22 214	25 035	8 960	5 274	17 962	19 006	8 216	5 132	14 447	15 118	11 428	18 692	18 684	18 768	—	
	24 063	26 982	9 175	5 274	20 567	21 692	7 909	10 250	15 468	15 965	8 632	19 904	19 921	19 671	—	
	6 653	7 678	4 645	—	8 241	8 081	10 005	6 629	9 767	10 225	8 459	16 640	16 408	18 030	—	
	8 940	9 029	8 005	6 005	12 570	12 064	15 297	13 460	16 478	16 938	15 085	19 699	17 674	25 485	—	
16 776	17 323	12 325	8 005	20 795	20 887	18 211	18 211	17 797	18 211	18 211	24 309	25 398	16 810	—		
14 907	15 110	13 736	15 262	15 258	15 519	12 028	14 181	14 656	14 998	12 583	20 232	20 728	16 012	20 823		
13 220	13 491	10 671	9 349	14 938	15 276	11 448	14 103	14 477	14 773	13 251	18 677	19 888	12 364	14 178		
15 248	15 515	10 731	12 640	16 448	16 801	12 367	17 007	15 391	15 758	10 230	21 740	22 083	19 128	17 096		
16 128	16 346	15 575	10 221	14 829	14 777	17 018	13 019	14 193	14 470	15 896	21 326	21 582	18 935	8 236		
15 259	15 384	—	10 988	16 909	17 206	12 198	12 350	16 634	17 591	12 947	22 716	22 952	12 035	—		
7 013	7 013	—	—	14 788	14 660	16 455	—	13 994	13 597	8 155	16 916	14 905	14 374	—		
8 694	8 841	7 515	7 276	10 853	11 068	9 439	8 860	9 974	9 598	8 118	14 784	14 996	13 810	—		
15 837	16 012	13 375	13 213	16 507	16 721	12 215	13 640	15 249	15 422	12 849	19 141	20 234	17 045	19 040		
12 306	12 520	10 843	10 829	12 763	12 863	12 255	10 212	12 915	11 002	11 283	15 542	15 752	15 629	15 687		
13 558	13 703	12 256	12 329	14 163	14 273	13 253	12 397	12 521	12 836	11 046	17 981	18 237	16 654	15 255		
14 361	14 916	10 727	8 542	17 194	17 312	16 893	14 061	14 834	15 584	10 486	17 643	17 990	17 531	15 960		
19 781	19 808	18 545	16 302	19 792	19 951	18 041	21 229	18 518	18 774	15 407	22 329	22 864	15 908	21 617		
11 100	11 334	8 288	10 323	13 143	14 359	8 196	13 641	12 769	13 171	12 365	19 823	21 305	15 325	13 005		
15 060	15 454	10 405	11 751	16 667	16 906	13 509	12 252	15 748	16 136	11 430	21 749	22 232	17 456	17 326		
Service occupations	12 014	12 344	10 260	10 195	11 881	12 124	10 548	9 392	11 876	12 344	9 595	18 076	18 568	16 424	16 052	
Private household occupations	12 532	12 463	12 885	12 369	13 775	13 846	13 164	11 719	13 000	13 192	12 046	—	—	—	—	
Protective service occupations	11 807	11 774	12 008	11 407	13 334	13 355	13 104	11 650	12 650	12 787	12 246	21 306	21 406	21 240	20 639	
Guards	19 298	19 632	18 588	19 578	19 383	19 884	14 459	13 745	18 300	19 245	8 677	20 874	20 938	21 111	20 311	
Other protective service occupations	11 868	12 309	9 537	10 026	11 391	11 646	10 096	9 227	11 465	12 008	9 891	24 810	25 040	22 557	35 535	
Service occupations, except protective and household	9 644	10 177	8 215	4 625	10 028	10 930	7 175	6 933	11 322	11 692	8 186	16 952	17 456	15 419	15 631	
Food preparation and service occupation	11 211	11 211	—	—	13 412	13 201	17 167	7 175	13 018	13 463	8 907	14 178	18 049	10 325	—	
Health service occupations	11 912	12 345	9 574	10 127	11 405	11 646	10 166	9 266	13 018	13 463	8 907	20 659	22 074	10 325	—	
Cleaning and building service occupations, except household	10 157	10 337	11 139	—	11 982	12 175	9 170	12 369	18 732	21 271	10 156	16 921	17 373	15 567	15 763	
Personal service occupations	11 159	10 946	9 168	11 729	11 971	12 543	9 013	14 341	11 425	11 919	11 955	18 931	19 582	15 175	10 005	
Farming, forestry, and fishing occupations	17 537	17 880	14 067	14 105	17 229	17 464	14 119	14 259	17 358	17 802	13 635	22 660	23 099	20 006	15 666	
Precision production, craft, and repair occupations	21 219	21 472	14 943	14 881	16 363	16 513	14 859	13 655	16 726	16 726	13 025	20 204	20 719	20 006	14 385	
Mechanics and repairers	21 910	22 664	14 005	10 998	21 363	21 364	20 156	12 817	22 255	22 315	21 406	26 749	26 925	28 172	15 914	
Supervisors, mechanics and repairers	14 927	15 290	12 394	12 986	14 886	15 046	14 567	13 586	14 788	15 304	8 424	16 814	17 477	14 637	11 541	
Automobile mechanics, including body	17 829	18 000	16 147	15 162	16 445	16 583	14 075	14 417	15 863	16 124	12 613	22 550	22 773	20 805	20 760	
Industrial machinery repairers	16 466	17 236	10 693	8 871	16 199	16 352	15 586	19 412	14 476	14 984	10 358	19 539	20 686	16 340	16 011	
Electron c repairs, communications and industrial equipment	15 181	15 472	9 761	18 422	15 074	15 388	11 913	11 753	15 630	15 781	12 557	20 611	21 004	19 414	20 505	
Heating, air conditioning, and refrigeration mechanics	16 755	17 001	14 779	14 859	16 413	16 549	15 343	13 437	16 732	17 121	13 487	22 048	22 289	20 538	18 048	
Other mechanics and repairers	15 759	16 107	12 505	12 546	16 941	17 257	12 427	12 970	16 405	15 479	12 345	23 314	23 675	20 538	15 894	
Construction trades	25 772	26 022	14 010	12 048	21 930	21 978	20 610	14 701	22 036	22 012	15 479	27 729	27 729	27 729	15 005	
Supervisors, construction occupations	12 839	13 148	9 679	10 533	13 711	13 888	12 117	11 832	14 407	14 762	9 804	18 576	19 135	13 030	9 793	
Carpenters	19 095	19 185	18 681	16 877	18 333	18 383	12 518	16 472	16 916	17 354	12 350	24 903	25 056	23 316	20 948	
Electricians	16 992	10 972	9 888	7 891	12 550	12 922	9 981	11 215	11 699	11 767	11 762	16 313	16 767	15 073	12 533	
Painters, construction and maintenance	16 992	17 424	12 025	14 800	18 088	18 364	16 964	11 240	18 779	18 887	16 927	24 590	24 751	23 018	21 899	
Plumbers, pipefitters, and steamfitters	14 645	14 873	10 806	13 297	14 601	14 752	12 160	12 699	15 445	15 714	11 839	16 955	17 806	14 350	15 582	
Other construction trades	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Fabricated metal industries				Machinery, except electrical				Electrical machinery, equipment, and supplies				Motor vehicles and motor vehicle equipment			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extrusive production occupations	12 773	13 555	9 585	18 461	15 691	16 157	11 353	9 236	18 012	14 437	45 575	5 005	17 328	17 530	14 628	—
Precision production occupations	17 964	18 322	14 288	14 295	17 494	17 743	14 048	14 529	20 840	18 840	14 044	12 876	24 705	24 403	21 988	16 868
Supervisors, production occupations	20 269	20 619	16 091	16 594	21 771	21 989	18 126	17 770	20 685	21 012	16 546	9 873	24 136	24 801	21 958	18 231
Precision metalworking occupations	16 048	16 380	13 125	13 076	15 848	16 030	12 960	15 661	18 474	16 466	14 493	13 271	21 714	22 058	18 112	15 131
Tool and die makers	18 587	18 775	15 219	15 008	18 752	18 906	13 910	15 661	18 574	18 690	14 323	13 626	23 626	23 787	21 357	19 112
Mechanists	14 772	15 086	12 595	12 475	14 760	14 905	12 836	13 786	15 083	15 347	12 988	12 635	21 546	21 873	19 962	13 107
Sheet metal workers	15 202	15 474	11 712	12 437	14 857	14 984	11 680	14 844	15 639	14 760	13 155	11 918	21 536	21 873	19 296	14 258
Other precision metal workers	16 344	16 991	12 804	12 843	17 362	17 544	13 110	15 238	17 722	17 681	13 155	13 644	23 343	23 505	20 284	14 084
Precision textile, apparel, and furnishings machine workers	11 061	11 994	8 005	12 005	12 894	13 215	8 582	10 813	12 681	12 880	6 505	4 002	16 935	13 729	29 212	36 859
Precision food production occupations	14 012	14 802	9 813	11 574	12 583	12 567	13 317	12 195	12 339	12 443	6 505	10 712	20 788	20 247	17 778	17 391
Precision inspectors, testers, and related workers	14 861	15 093	11 852	10 777	16 693	17 051	11 327	16 082	14 525	14 712	12 922	11 111	20 794	21 128	17 778	17 391
Plant and system operators	20 041	20 418	14 725	12 966	21 977	22 482	12 620	15 582	21 782	22 187	16 885	16 435	24 621	25 201	17 961	24 005
Other precision production occupations	12 930	13 389	11 491	10 255	12 558	12 907	10 426	10 584	10 292	10 886	9 383	8 206	20 276	21 123	15 432	9 590
Operators, fabricators, and laborers	12 704	13 035	11 471	10 670	14 009	14 303	12 350	11 336	12 439	12 887	10 951	9 742	16 877	17 327	15 616	13 386
Machine operators, assemblers, and inspectors	12 800	13 125	11 491	10 807	14 187	14 463	12 594	11 612	12 506	12 952	10 884	9 866	16 829	17 282	15 532	13 553
Machine operators and tenders, except precision	12 763	13 087	11 471	10 628	14 377	14 642	12 681	11 818	12 952	13 364	11 084	10 269	17 294	17 739	16 111	12 236
Metalworking and plastic working machine operators	13 279	13 611	11 700	11 477	14 898	15 078	13 200	13 062	13 597	13 851	12 064	11 148	18 012	18 366	16 847	12 933
Fabricating machine operators, n.e.c.	12 887	13 291	9 617	10 799	13 391	13 493	12 111	13 731	15 011	15 399	13 872	8 811	16 128	16 208	15 729	10 527
Metal and plastic processing and woodworking machine operators	12 321	12 557	10 219	10 461	16 190	16 551	12 889	12 492	12 822	13 004	13 067	11 333	17 092	17 452	16 556	12 099
Printing machine operators	16 832	17 055	15 215	16 706	13 901	14 089	13 037	7 677	12 286	12 437	14 365	8 172	17 162	17 943	15 279	17 930
Textile machine operators	13 005	13 014	20 905	9 672	12 149	12 704	9 851	9 784	11 142	9 374	9 886	7 075	14 393	15 394	9 749	—
Textile sewing machine operators	12 994	13 094	12 679	9 370	10 865	11 079	8 023	9 990	9 533	9 568	9 427	8 313	14 928	16 949	10 276	8 138
Laundry and dry cleaning machine operators	14 680	14 743	14 348	14 005	9 750	14 064	4 497	17 973	16 791	17 431	15 630	—	21 794	22 783	15 205	—
Packaging and filling machine operators	13 747	13 791	13 198	11 458	13 401	14 036	7 568	17 973	16 911	17 155	12 444	9 443	14 467	16 053	11 583	9 987
Furnace, kiln, and oven operators, except food	14 165	14 522	12 959	12 215	15 850	16 020	15 254	13 281	14 388	14 770	10 524	11 007	20 188	21 301	17 286	15 048
Other specified machine operators	11 928	12 169	11 293	9 877	12 762	12 987	11 819	10 790	12 117	12 498	10 604	9 870	16 491	16 819	15 878	13 110
Miscellaneous and not specified machine operators	12 393	12 768	11 372	10 190	13 689	14 007	12 465	10 903	12 732	13 275	11 469	9 992	16 564	17 084	15 413	11 425
Fabricators, assemblers, and hand working occupations	12 456	12 782	10 878	10 896	13 458	13 741	12 209	11 095	12 508	11 960	10 281	9 150	16 006	16 420	14 907	13 946
Welders and cutters	13 086	13 379	11 212	12 073	13 674	13 880	12 511	11 830	13 230	13 588	11 402	11 402	15 730	16 057	15 125	12 676
Solders and brazers	9 625	10 332	3 089	9 713	11 434	11 588	10 911	8 656	8 266	8 538	7 135	6 471	14 953	15 889	10 075	11 009
Assemblers	11 394	11 724	10 533	9 306	13 301	13 641	12 058	10 484	11 212	11 679	10 024	8 865	16 089	16 530	14 875	14 345
Hand working occupations	12 060	12 437	10 075	9 866	13 945	14 365	9 906	11 510	11 395	11 824	8 681	9 450	16 472	17 058	11 414	16 908
Production inspectors, testers, samplers, and weighers	14 961	15 175	13 726	13 275	15 930	16 160	13 987	13 715	13 860	14 294	11 291	10 792	18 882	19 209	17 343	17 149
Graders and sorters, except agricultural	11 102	11 292	10 982	10 542	11 677	12 244	10 155	10 624	11 329	11 837	10 393	24 225	15 641	16 695	18 213	12 160
Other production inspectors, testers, samplers, and weighers	15 048	15 265	13 777	13 422	15 968	16 191	14 066	13 820	13 880	14 311	11 307	10 768	18 896	19 219	17 341	17 248
Transportation and material moving occupations	13 857	14 257	12 414	11 536	14 274	14 593	12 633	11 447	13 523	13 902	11 889	10 518	18 278	18 696	16 864	14 671
Transportation occupations	14 346	14 773	12 947	10 499	14 143	14 604	12 633	11 447	13 523	13 902	11 889	10 518	18 278	18 696	16 864	14 671
Motor vehicle operators	14 310	14 735	12 928	10 485	14 084	14 541	11 352	10 768	13 523	13 902	11 889	10 518	18 278	18 696	16 864	14 671
Truck drivers	14 349	14 781	12 866	10 525	14 152	14 593	11 352	10 768	13 523	13 902	11 889	10 518	18 278	18 696	16 864	14 671
Driver-sales workers	13 670	13 405	13 042	13 001	13 949	14 007	13 118	11 905	12 536	12 876	4 405	12 155	13 237	13 593	12 087	12 736
Other motor vehicle operators	13 362	13 670	13 791	13 791	12 894	13 805	8 493	12 626	14 926	15 671	4 110	13 282	18 229	18 803	16 833	12 772
Rail and water transportation occupations	17 278	17 863	14 263	14 005	17 498	18 040	13 843	12 823	17 296	17 078	20 837	—	18 111	19 790	12 054	10 045
Material moving equipment operators	13 556	13 932	12 110	12 123	14 344	14 587	13 299	11 797	12 663	12 938	11 619	10 466	18 306	18 777	16 157	16 157
Supervisors, material moving equipment operators	9 771	9 985	7 990	17 171	21 755	22 049	23 432	11 013	19 013	19 240	16 726	—	28 063	28 064	28 239	21 105
Crane, hoist, and winch operators	14 356	14 681	13 506	13 379	16 041	16 156	15 236	15 379	15 500	15 389	16 726	16 090	20 231	20 365	19 550	20 744
Excavating, grading, and dozer machine operators	10 853	11 775	8 052	12 103	13 977	14 336	10 155	18 325	15 231	15 231	—	—	23 931	26 720	16 461	—
Other material moving equipment operators	13 238	13 626	11 519	11 546	13 779	14 026	12 783	11 102	12 189	12 464	11 107	10 027	17 634	17 999	16 219	15 468
Handlers, equipment cleaners, helpers, and laborers	10 821	11 071	10 410	9 667	11 718	12 072	10 296	8 744	10 956	11 440	9 201	8 500	15 260	15 629	14 875	10 293
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	16 751	17 039	12 005	7 759	19 110	19 110	9 005	7 781	23 230	23 230	11 147	9 045	17 002	16 654	18 533	—
Helpers, craft and production	9 743	10 352	9 945	7 369	12 964	10 262	10 124	11 291	9 863	9 792	10 085	8 818	12 248	12 528	13 680	8 354
Construction laborers	12 562	13 324	10 542	9 462	12 233	12 597	10 124	11 291	13 459	13 700	8 894	—	14 400	16 831	9 240	—
Freight, stock, and material handlers	11 720	11 961	7 961	9 462	13 038	13 869	9 501	11 330	10 936	10 936	8 894	8 909	16 799	16 957	16 687	12 363
Garage and service station attendants, and equipment cleaners	10 350	10 836	7 979	8 988	12 034	12 465	8 851	8 107	9 870	9 976	9 388	8 483	16 098	16 948	15 029	8 376
Hand packers and packagers	11 050	11 313	11 160	9 012	12 286	12 477	11 529	8 386	9 951	10 556	8 306	8 019	14 618	12 233	12 402	10 559
Laborers, except construction	10 663	10 864	10 493	9 348	11 394	11 678	10 387	8 639	11 541	12 089	9 833	8 606	14 808	15 036	14 844	10 452

¹Persons of Spanish origin may be of any race.

Table 2. **Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:**
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Fabricated metal industries				Machinery, except electrical				Electrical machinery, equipment, and supplies				Motor vehicles and motor vehicle equipment			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over																
Managerial and professional specialty occupations	9 205	9 335	8 700	7 387	10 113	10 201	9 736	8 406	9 300	9 446	9 108	7 590	12 469	12 471	12 782	9 662
Executive, administrative, and managerial occupations	14 113	14 197	12 330	12 597	15 048	15 050	15 290	13 313	13 746	13 781	13 461	11 083	17 477	17 316	18 963	13 136
Officials and administrators, public administration	14 135	14 244	11 637	12 480	14 889	14 949	14 413	13 376	13 803	13 845	13 553	11 268	16 928	16 800	18 130	11 760
Financial managers	17 255	17 255	—	—	—	—	—	—	16 005	16 005	—	—	—	—	—	—
Managers, marketing, advertising, and public relations	14 879	14 879	12 043	12 907	16 770	16 905	14 740	14 454	15 735	15 794	14 292	10 300	16 151	16 056	12 213	6 329
Administrators, education and related fields	13 912	13 902	14 719	24 659	17 098	17 210	11 311	12 735	16 041	16 048	16 348	16 205	13 741	13 800	11 977	6 329
Managers, medicine and health	6 813	8 005	—	—	12 933	12 933	—	—	16 151	16 151	—	—	16 024	11 755	21 005	—
Other specified managers	14 625	14 720	14 803	12 474	17 093	16 948	19 445	17 197	15 586	15 825	13 673	13 780	18 224	17 899	21 758	9 255
Managers and administrators, n.e.c.	15 629	15 751	11 484	12 793	16 468	16 522	15 935	13 776	14 894	14 915	14 883	11 362	16 559	16 641	16 203	10 188
Salaries	15 966	16 147	9 738	11 637	16 765	16 830	15 935	14 583	15 065	15 110	14 688	11 362	17 285	17 413	16 203	10 188
Self-employed	9 400	8 624	40 010	46 005	9 456	9 390	—	5 557	6 979	6 406	33 175	—	4 504	4 504	—	—
Management related occupations	12 616	12 693	11 223	11 116	13 052	13 078	13 014	12 096	12 483	12 456	12 773	10 547	17 216	17 047	18 357	13 630
Accountants and auditors	12 563	12 622	10 892	12 320	12 779	12 793	12 627	11 968	12 483	12 528	12 773	10 263	17 477	17 477	18 357	13 630
Personnel, training, and labor relations specialists	12 885	12 943	12 530	10 888	14 314	14 608	14 314	15 747	12 378	12 085	14 515	10 144	18 773	18 457	20 628	10 452
Buyers and purchasing agents	11 954	11 976	12 638	9 822	12 390	12 504	12 504	9 958	12 056	12 072	12 072	8 388	15 766	15 661	17 516	16 996
Inspectors and compliance officers	12 152	12 878	8 005	11 192	11 192	11 192	—	—	10 348	12 121	2 528	8 388	9 323	9 323	—	—
Other management related occupations	16 269	16 883	5 747	10 675	14 041	13 968	15 250	7 972	15 076	15 123	16 574	12 527	19 443	19 608	19 169	—
Professional specialty occupations	14 012	13 979	14 485	13 076	15 402	15 280	16 728	13 154	13 636	13 656	13 276	10 652	18 519	18 314	20 429	16 120
Engineers, architects, and surveyors	13 870	13 690	15 396	13 786	15 184	15 180	14 250	11 458	13 898	13 935	12 161	10 652	18 542	18 410	18 432	22 314
Architects	14 935	—	—	—	24 492	24 492	—	—	12 005	12 005	—	—	21 175	21 175	—	—
Engineers	13 864	13 690	15 396	13 786	15 184	15 180	14 250	11 458	13 898	13 935	12 161	10 652	18 542	18 410	18 432	22 314
Civil engineers	16 133	16 133	23 005	18 471	10 926	11 435	7 005	—	8 518	7 982	12 005	—	18 529	18 394	18 432	—
Electrical and electronic engineers	17 476	15 144	23 005	13 035	18 471	18 415	16 746	10 886	14 581	14 783	11 516	11 607	15 725	15 725	—	—
Industrial engineers	12 263	12 558	14 648	13 931	13 931	13 931	15 224	10 886	12 804	12 791	12 460	12 696	15 482	15 482	22 633	15 233
Mechanical engineers	15 517	15 517	19 075	14 975	15 344	15 344	12 556	10 937	14 238	14 238	9 448	12 696	19 235	19 363	16 495	27 035
Other engineers	16 355	16 246	—	—	16 271	16 405	12 250	—	14 964	14 821	14 885	13 441	20 587	21 905	16 450	—
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer systems analysts and scientists	16 185	16 185	—	21 498	17 165	17 069	17 719	—	15 348	15 504	14 346	5 337	19 301	18 870	21 291	22 005
Operations and systems researchers and analysts	16 360	16 360	—	—	16 497	16 624	15 124	6 436	15 543	15 321	18 202	18 000	20 229	21 513	11 076	—
Mathematical scientists	15 826	15 206	—	—	15 927	15 520	14 005	—	14 465	14 067	16 777	18 005	20 229	21 513	11 076	—
Natural scientists	16 051	16 398	10 005	13 719	12 401	12 052	15 123	14 314	12 495	12 559	9 626	5 578	19 185	18 628	7 275	17 005
Chemists, except biochemists	16 863	16 913	—	16 005	11 892	11 525	15 123	11 005	14 104	14 156	12 159	6 103	19 442	17 944	24 005	17 005
Other natural scientists	12 005	13 102	10 005	8 005	13 373	12 873	53 005	18 725	10 703	10 992	8 657	5 220	17 197	17 197	—	—
Health diagnosing occupations	13 305	12 005	12 005	16 005	37 105	28 626	—	—	15 095	18 172	—	—	44 705	30 005	59 405	—
Health assessment and treating occupations	13 292	13 013	17 912	16 005	13 933	13 863	15 312	12 345	14 099	14 034	19 843	9 253	19 543	19 238	23 930	22 805
Registered nurses	14 955	14 955	—	16 005	13 940	13 877	15 422	13 743	13 912	13 835	20 911	9 253	19 512	19 202	23 930	22 805
Other health assessment and treating occupations	10 001	10 001	—	—	13 075	13 075	14 776	11 655	20 522	21 322	13 005	—	22 852	22 852	—	—
Teachers, except postsecondary	12 777	13 190	2 005	9 832	16 729	16 784	17 267	11 655	11 714	11 726	13 177	10 630	11 752	12 348	18 005	—
Social scientists and urban planners	9 009	8 377	10 905	—	13 743	13 743	19 051	14 729	13 450	12 997	13 973	14 023	15 679	15 799	20 641	7 918
Lower and recreation workers	32 648	33 844	—	—	24 981	24 904	25 884	39 005	22 143	21 850	6 505	—	19 025	22 032	20 641	10 005
Writers, artists, entertainers, and athletes	12 035	12 037	11 972	12 197	14 181	14 087	16 273	12 571	22 143	21 850	11 657	29 885	22 032	20 436	27 169	—
Other professional specialty occupations	12 478	13 055	11 525	8 005	12 184	12 047	12 988	11 433	13 239	13 192	14 005	16 040	15 520	15 305	18 742	14 294
Technical, sales, and administrative support occupations	9 239	9 272	9 038	7 771	9 952	9 936	10 211	9 090	9 917	9 944	9 956	8 961	12 830	12 796	13 792	8 924
Technicians and related support occupations	10 633	10 666	10 973	8 914	12 658	12 668	13 062	10 850	11 318	11 374	11 277	10 352	14 796	14 742	15 057	9 537
Health technicians and technicians	9 303	9 657	6 973	11 357	11 139	11 139	13 051	9 885	10 112	10 462	5 237	—	19 025	12 447	18 189	—
Licensed practical nurses	9 165	9 633	6 973	—	10 684	10 633	11 058	9 885	8 734	9 290	5 237	—	13 094	11 468	18 189	—
Other health technicians and technicians	9 719	—	—	—	14 282	13 261	25 005	—	11 102	11 215	—	—	11 491	11 491	—	—
Engineering and science technicians	9 999	10 072	10 072	8 387	10 773	10 965	9 515	10 321	10 709	10 724	10 920	10 193	13 681	13 921	12 638	5 524
Electrical and electronic technicians	11 019	10 725	12 658	—	10 560	11 031	7 840	10 636	10 701	10 748	10 759	9 732	13 016	15 778	15 651	—
Industrial and mechanical engineers	11 802	12 526	8 959	—	12 120	12 376	11 005	5 795	10 415	10 592	10 382	8 595	15 267	15 291	15 005	—
Drafting and surveying technicians	8 896	9 203	4 488	6 397	10 411	10 454	9 448	10 652	10 561	10 640	11 390	9 768	13 006	12 860	19 979	4 932
Other engineering and science technicians	10 780	10 774	11 859	6 657	11 353	11 527	11 184	9 741	10 873	10 747	11 201	11 609	14 290	14 576	13 269	6 855
Technicians, except health, engineering, and science	12 137	12 052	12 784	16 353	14 504	14 423	16 049	11 563	13 330	13 438	12 261	11 221	16 481	16 113	18 722	20 369
Airplane pilots and navigators	—	—	—	—	15 576	15 576	—	—	27 505	27 505	—	—	—	—	—	—
Air traffic controllers and broadcast equipment operators	12 359	12 098	15 036	—	9 157	9 157	16 947	—	9 577	7 905	12 133	7 425	14 707	14 497	19 142	20 369
Computer programmers	11 609	11 923	10 384	18 005	15 304	15 188	16 947	12 645	14 007	14 030	10 508	9 941	16 703	16 042	16 429	—
Other technicians, except health, engineering, and science	—	—	—	—	10 917	11 139	10 875	9 593	11 957	12 311	10 508	—	15 874	16 429	15 005	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Fabricated metal industries				Machinery, except electrical				Electrical machinery, equipment, and supplies				Motor vehicles and motor vehicle equipment			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations.....	9 844	9 855	8 417	8 977	12 659	12 762	10 027	13 412	11 065	11 232	8 790	8 552	11 553	11 644	11 563	12 254
Supervisors and proprietors, sales occupations.....	12 958	12 784	15 405	11 864	14 211	14 515	10 318	14 960	12 199	13 007	6 159	17 516	17 833	17 375	38 005	—
Supervisors and proprietors, sales occupations.....	13 385	13 229	15 405	11 864	14 173	14 481	10 318	14 960	12 613	13 538	6 159	17 516	17 833	17 375	38 005	—
Salaried.....	521	521	—	—	16 103	16 103	—	—	158	158	—	—	20 178	25 477	—	—
Self-employed.....	11 462	11 007	—	12 035	14 623	14 814	15 505	9 005	9 916	10 556	1 305	—	11 111	11 111	—	—
Sales representatives, finance and business services.....	10 137	10 153	8 985	6 913	13 370	13 445	10 765	14 552	11 806	11 853	11 051	8 982	12 305	12 389	11 831	12 254
Sales representatives, commodities, except retail.....	7 383	7 402	6 439	8 092	8 138	8 103	8 154	9 056	8 654	8 999	5 748	6 696	9 713	9 854	9 133	—
Sales workers, retail and personal services.....	8 482	8 544	7 903	9 960	7 963	7 950	7 972	12 514	8 293	8 660	5 969	6 947	9 798	10 178	6 967	—
Cashiers.....	6 400	6 445	5 934	—	8 355	8 280	8 513	5 69	9 045	9 355	5 971	6 125	13 049	9 325	13 049	—
Other sales occupations, retail and personal services.....	4 887	4 887	—	—	8 418	6 259	12 725	3 755	4 129	4 069	5 905	—	12 005	—	12 005	—
Sales related occupations.....																
Administrative support occupations, including clerical.....	9 162	9 198	8 920	7 684	9 665	9 658	9 946	8 799	9 711	9 740	9 846	8 726	12 780	12 743	13 803	8 834
Supervisors, administrative support occupations.....	13 006	13 090	12 906	9 356	13 725	13 746	14 071	12 565	14 003	14 005	14 629	11 122	12 798	12 793	13 803	10 999
Computer equipment operators.....	9 988	9 102	10 817	7 998	10 445	10 382	10 036	8 825	10 247	10 122	9 380	8 366	13 463	13 354	14 465	8 257
Secretaries, stenographers, and typists.....	9 062	9 102	8 756	6 807	9 550	9 543	9 802	9 825	9 707	9 739	9 735	8 586	13 463	13 354	14 465	8 257
Secretaries.....	9 254	9 290	8 678	6 944	9 769	9 764	10 029	9 066	9 963	9 992	9 968	8 764	13 463	13 354	14 465	8 257
Stenographers and typists.....	7 669	7 660	8 988	6 288	7 836	7 726	8 989	7 536	7 892	7 796	8 995	7 753	11 246	12 277	13 352	8 331
Receptionists.....	7 177	7 177	5 382	6 501	7 287	7 257	8 369	5 386	7 257	7 404	6 796	6 102	8 088	8 265	9 311	3 940
Other information clerks.....	8 078	8 044	5 005	2 197	8 992	8 985	8 351	8 440	9 765	9 679	9 944	13 249	12 464	13 191	9 276	4 805
File clerks.....	7 442	7 469	7 811	7 587	7 824	7 795	8 617	8 482	8 255	8 263	8 689	6 138	10 610	10 233	12 277	9 515
Other records processing occupations, except financial.....	9 075	9 168	7 815	7 385	9 852	9 804	10 804	8 804	9 955	10 060	9 415	8 139	13 129	13 506	12 461	11 749
Bookkeepers, accounting, and auditing clerks.....	9 285	9 307	8 649	7 696	9 499	9 474	10 325	8 374	9 612	9 587	9 635	9 388	10 832	10 656	14 804	8 626
Payroll and timekeeping clerks.....	9 777	9 779	8 801	11 193	10 592	10 561	11 096	9 290	10 760	10 905	10 027	9 562	13 677	13 570	15 253	14 976
Other financial records processing occupations.....	9 169	9 048	10 815	9 344	9 436	9 505	7 769	8 922	9 850	9 920	10 229	10 160	12 149	12 876	14 034	—
Telephone operators.....	7 805	7 733	8 742	6 076	8 403	8 550	7 805	5 630	8 365	8 365	8 302	9 721	12 491	12 222	14 458	6 991
Mail and message.....	6 588	6 536	8 543	5 641	6 777	6 785	7 414	3 897	7 792	7 692	8 826	4 331	9 618	10 260	7 029	—
Production coordinators and expeditors.....	10 195	10 381	8 719	7 966	11 187	11 223	10 714	11 121	10 795	10 751	10 635	10 705	14 674	14 543	16 013	8 845
Traffic, shipping, and receiving clerks.....	9 167	9 272	8 707	8 082	9 536	9 503	10 010	7 156	9 000	9 004	9 424	8 793	11 883	11 676	14 287	6 212
Stock and inventory clerks.....	8 637	8 610	7 813	8 227	10 127	10 107	10 652	9 196	9 549	9 549	10 150	8 797	12 114	12 002	14 013	7 310
Other material recording, scheduling, and distributing clerks.....	10 813	10 942	5 248	4 805	10 042	9 988	10 625	8 185	9 282	9 481	7 834	8 527	11 814	12 121	12 853	5 127
Adjusters and investigators.....	8 951	8 949	10 154	8 230	11 473	11 477	10 625	10 347	11 005	11 092	10 257	10 038	14 336	14 122	16 692	13 408
Data-entry keyers.....	8 497	8 480	9 023	8 318	9 190	9 200	9 507	8 272	9 232	9 310	9 245	9 133	12 916	12 706	14 692	13 408
Other administrative support occupations.....	7 568	7 753	7 358	4 593	7 526	7 584	7 346	6 416	7 893	8 019	7 639	5 733	12 512	12 507	14 265	7 868
Service occupations.....																
Private household occupations.....	10 881	10 956	11 899	10 005	10 106	9 832	12 345	5 413	11 179	11 350	11 021	9 453	18 041	16 925	20 437	13 760
Recreation service occupations.....	10 697	10 881	11 413	10 005	10 130	9 853	12 345	4 943	10 921	11 030	11 021	9 554	18 041	16 925	20 437	7 445
Other service occupations.....	13 441	13 923	19 003	10 005	8 991	8 991	—	6 355	14 693	14 693	—	10 005	—	—	—	—
Service occupations, except protective and household.....	7 145	7 380	6 545	4 410	7 295	7 366	7 007	6 499	7 403	7 506	7 184	5 472	11 790	11 921	11 344	14 009
Food preparation and service occupation.....	5 948	6 075	5 746	1 040	6 204	6 460	4 516	6 917	6 472	6 358	7 036	4 718	8 170	8 282	6 901	6 711
Health service occupations.....	10 341	10 873	5 176	1 040	11 713	10 742	17 326	6 525	10 879	11 479	6 997	18 005	11 940	11 262	13 598	14 009
Cleaning and building service occupations, except household.....	7 114	7 337	6 627	4 601	7 574	7 672	7 326	6 643	7 500	7 612	7 372	5 493	12 793	13 061	12 207	15 137
Personal service occupations.....	8 974	9 101	8 643	—	6 269	6 146	6 753	7 05	7 940	8 952	5 506	—	9 608	10 599	6 322	—
Farming, forestry, and fishing occupations.....	6 420	6 771	3 315	—	8 134	8 454	6 664	8 235	6 887	7 987	7 287	9 195	11 014	12 050	6 005	—
Precision production, craft, and repair occupations.....																
Mechanics and repairers.....	10 244	10 388	9 643	8 994	10 382	10 615	9 793	8 776	9 360	9 597	9 350	7 763	14 141	14 169	14 420	9 826
Supervisors, mechanics and repairers.....	10 512	10 649	9 163	9 381	10 263	10 422	10 554	7 791	10 359	10 366	10 353	10 162	12 334	12 434	12 037	11 322
Automobile mechanics, including body.....	7 926	8 025	7 363	—	13 10	12 446	17 115	5 474	10 120	10 443	13 605	13 505	13 773	13 173	10 531	—
Industrial machinery repairers.....	13 545	14 776	9 495	13 605	10 921	11 240	17 326	5 474	10 087	10 620	6 827	16 703	11 562	11 853	10 531	11 838
Electronic repairers, communications and industrial.....	12 005	12 005	—	—	10 802	11 248	6 295	6 145	11 249	11 141	9 453	16 703	16 175	14 760	22 735	11 189
Heating, air conditioning, and refrigeration mechanics.....	9 857	9 061	11 015	—	10 061	9 808	9 728	9 476	9 350	9 015	11 841	8 326	12 792	12 530	14 221	8 979
Other mechanics and repairers.....	9 973	10 328	8 782	8 677	10 168	10 256	10 943	7 772	10 323	10 320	10 767	9 841	12 247	12 484	11 507	11 823
Construction trades.....	8 388	8 195	10 707	7 060	10 248	10 837	7 481	6 925	9 186	9 667	8 709	5 302	11 933	12 201	11 077	2 611
Supervisors, construction occupations.....	11 891	11 891	7 438	—	16 590	13 724	7 355	9 640	10 984	11 406	7 318	—	34 005	34 005	4 705	605
Carpenters.....	13 206	13 206	7 438	—	16 590	13 724	7 355	9 640	10 984	11 406	7 318	—	34 005	34 005	4 705	605
Electricians.....	6 266	6 266	8 666	3 980	10 369	10 856	9 935	6 263	9 317	9 790	6 468	5 646	14 145	15 138	9 434	—
Painters, construction and maintenance.....	8 091	8 091	8 666	3 980	7 971	8 141	6 775	4 414	8 660	8 682	8 169	8 587	15 792	15 792	15 792	—
Plumbers, pipefitters, and steamfitters.....	8 091	8 091	12 005	5 520	15 258	15 777	9 205	4 414	15 258	15 777	9 205	4 414	15 258	15 777	9 205	—
Other construction trades.....	8 181	7 455	11 547	10 536	9 376	9 743	7 894	18 005	10 193	10 465	9 424	6 580	12 518	13 110	10 558	10 005

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Fabricated metal industries				Machinery, except electrical				Electrical machinery, equipment, and supplies				Motor vehicles and motor vehicle equipment			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over—Con.																
Precision production, craft, and repair occupations—Con																
Extrusive occupations	2 264	2 264	—	—	6 901	6 975	6 559	—	11 522	10 825	13 862	—	19 835	19 835	—	—
Precision production occupations	10 402	10 547	9 625	9 179	10 410	10 410	9 744	8 962	9 226	9 482	9 200	7 649	15 052	15 027	15 713	9 783
Supervisors, production occupations	12 071	12 207	11 277	10 293	13 576	13 868	11 812	10 997	12 412	12 493	12 416	10 630	17 934	17 934	19 131	11 009
Precision metalworking occupations	9 078	9 063	8 838	9 286	9 666	9 711	9 993	7 650	10 332	10 664	9 993	8 409	12 225	12 079	12 950	9 997
Tool and die makers	11 980	12 171	11 221	9 785	10 653	10 730	11 318	7 048	10 592	10 761	13 215	7 492	16 738	16 703	16 881	—
Machinists	9 143	9 017	8 937	9 786	9 499	9 559	9 523	6 979	8 537	8 686	8 218	7 270	9 911	9 449	11 670	7 953
Sheet metal workers	8 641	8 828	8 598	9 786	10 351	9 177	16 147	17 165	8 696	8 671	8 671	9 520	12 047	12 859	8 543	15 505
Other precision metal workers	7 449	7 478	7 177	9 227	9 616	9 802	9 088	9 509	12 595	12 831	12 096	11 318	12 285	13 282	13 291	13 405
Precision textile, apparel, and furnishings machine workers	5 769	6 276	1 772	—	7 992	7 526	8 949	—	6 852	6 809	8 165	7 177	12 608	12 722	13 144	5 005
Precision food production occupations	7 808	7 808	—	4 557	4 844	4 495	5 282	4 175	6 701	7 027	5 271	9 511	10 569	10 569	—	6 291
Precision inspectors, testers, and related workers	9 381	9 665	9 069	—	10 393	10 548	9 583	8 733	9 329	9 344	10 065	7 914	11 012	11 027	—	—
Plant and system operators	11 333	10 859	15 673	11 175	11 175	11 415	11 420	14 805	13 144	11 050	10 375	56 210	12 191	19 415	17 336	—
Other precision production occupations	8 798	8 932	8 673	4 759	8 411	8 443	8 369	8 476	7 673	7 828	7 888	6 745	10 383	10 791	7 117	7 930
Operators, fabricators, and laborers	8 461	8 574	8 459	6 987	8 999	9 090	9 031	7 542	8 476	8 573	8 669	7 022	11 585	11 469	12 198	9 641
Machine operators, assemblers, and inspectors	8 552	8 641	8 575	7 183	8 995	9 078	9 034	7 610	8 496	8 583	8 739	7 063	11 672	11 559	12 257	9 798
Machine operators and tenders, except precision	8 557	8 646	8 532	7 331	8 999	9 106	9 039	7 610	8 496	8 583	8 739	7 063	11 672	11 559	12 257	9 798
Metalworking and plastic working machine operators	8 557	8 646	8 532	7 331	8 999	9 106	9 039	7 610	8 496	8 583	8 739	7 063	11 672	11 559	12 257	9 798
Fabricating machine operators, n.e.c.	7 995	8 067	7 524	8 807	8 499	8 463	6 750	5 067	8 455	8 353	9 813	7 193	9 822	9 822	12 157	5 302
Metal and plastic processing and woodworking machine operators	8 010	8 045	8 519	6 424	8 421	8 463	6 385	9 092	8 886	8 896	8 897	7 346	10 549	10 680	10 335	12 917
Printing machine operators	9 976	9 182	9 036	4 463	8 929	9 037	8 099	5 947	8 705	8 721	9 572	7 253	10 906	12 016	8 590	12 917
Textile machine operators	7 466	7 513	7 009	7 623	8 401	8 443	6 364	7 481	7 143	7 225	6 559	8 463	9 894	9 746	4 508	9 493
Textile sewing machine operators	8 307	8 685	7 408	7 623	7 086	7 332	6 364	5 817	6 100	6 234	6 228	4 736	13 042	13 150	12 494	12 605
Laundry and dry cleaning machine operators	10 747	13 311	7 841	6 267	10 428	11 338	—	6 194	5 675	4 683	6 125	—	8 572	10 434	5 357	5 005
Packaging and filling machine operators	8 538	8 796	8 336	6 267	6 713	8 813	8 657	3 580	8 171	8 340	8 562	4 935	9 457	9 778	6 753	5 005
Furnace, kiln, and oven operators, except food	8 941	9 343	7 795	6 165	10 576	10 556	8 144	7 241	13 093	13 506	9 281	7 360	11 719	10 853	14 940	—
Other specified machine operators	7 896	7 968	8 274	6 530	8 362	8 393	8 144	7 241	8 395	8 373	9 566	6 791	11 461	11 265	12 711	8 034
Miscellaneous and not specified machine operators	8 569	8 723	8 254	7 296	8 934	9 034	9 008	7 380	8 762	8 870	8 969	6 791	10 811	10 724	11 441	8 307
Fabricators, assemblers, and hand working occupations	7 972	8 076	8 008	6 813	8 542	8 601	8 715	7 328	8 079	8 149	8 395	6 809	11 584	11 386	12 362	10 072
Welders and cutters	8 601	8 611	9 123	7 164	9 529	9 529	8 765	8 706	8 212	8 287	8 264	6 921	11 857	11 785	12 007	11 375
Solders and brazers	7 686	7 878	7 625	9 087	7 203	7 246	7 478	6 178	7 230	7 251	7 663	6 584	8 728	8 461	9 153	9 153
Assemblers	7 902	8 014	7 903	6 756	8 543	8 596	8 743	7 321	8 127	8 200	8 439	6 846	11 593	11 390	12 398	10 041
Hand working occupations	7 423	7 663	6 081	8 249	8 377	8 538	7 898	—	7 404	7 555	7 387	4 284	10 350	10 027	11 417	5 862
Production inspectors, testers, samplers, and weighers	10 057	10 109	10 633	7 904	10 244	10 319	10 340	9 176	9 476	9 568	9 574	8 752	12 989	13 042	13 015	10 224
Graders and sorters, except agricultural	7 329	7 612	6 845	7 224	7 569	7 425	7 518	8 698	6 766	7 424	6 474	3 955	9 188	10 070	4 449	—
Other production inspectors, testers, samplers, and weighers	10 158	10 193	10 857	7 933	10 285	10 356	10 426	9 196	9 518	9 594	9 689	8 844	13 032	13 080	13 085	10 224
Transportation and material moving occupations	9 699	9 659	10 888	8 507	11 016	11 025	11 184	7 868	9 545	9 690	9 059	8 340	12 557	12 361	13 453	9 932
Transportation occupations	8 665	8 971	8 557	3 837	9 468	9 163	11 608	7 681	9 604	9 297	9 180	8 709	12 722	12 610	13 131	10 005
Motor vehicle operators	8 632	8 935	8 557	3 837	9 468	9 163	11 608	7 681	9 604	9 297	9 180	8 709	12 722	12 610	13 131	10 005
Truck drivers	8 893	9 327	8 642	3 837	9 400	9 208	13 180	7 302	10 214	9 805	9 375	8 709	12 591	12 582	12 468	10 005
Other motor vehicle operators	7 838	7 784	8 187	—	4 790	5 469	1 573	4 505	12 196	12 196	9 216	—	18 872	18 811	19 005	—
Rail and water transportation occupations	12 005	12 005	—	—	20 035	20 035	—	—	8 462	8 321	9 216	—	12 219	13 268	8 371	10 005
Material moving equipment operators	9 917	9 804	11 335	9 420	11 464	11 557	11 051	7 978	9 539	9 731	9 049	8 315	18 947	15 125	22 005	—
Supervisors, material moving equipment operators	15 225	15 225	—	—	16 769	16 120	22 105	—	12 561	12 561	9 731	—	26 713	22 442	33 561	9 926
Crane, hoist, and winch operators	9 859	9 930	9 684	11 589	12 487	12 535	10 795	15 005	10 343	10 795	9 508	—	14 688	13 590	32 985	—
Excavating, grading, and dozer machine operators	8 750	2 035	14 505	—	10 638	12 091	8 605	—	8 000	8 000	9 508	—	9 005	9 005	—	—
Other material moving equipment operators	9 894	11 462	8 615	8 615	11 291	11 380	10 891	7 836	9 503	9 094	9 025	8 315	11 886	11 593	13 068	9 926
Handlers, equipment cleaners, helpers, and laborers	7 739	7 960	7 357	5 817	8 491	8 693	8 260	6 798	7 999	8 233	7 526	6 274	9 989	9 848	10 848	7 898
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	7 725	7 725	—	—	8 912	9 000	—	—	10 699	12 841	7 005	8 505	—	—	—	—
Helpers, craft and production	8 045	7 967	10 673	6 676	8 912	9 000	8 711	10 261	8 134	7 919	9 567	8 505	9 621	9 730	12 472	4 877
Construction laborers	8 297	7 995	15 085	—	4 274	2 818	8 205	—	8 887	8 687	7 582	7 035	12 159	12 159	10 103	—
Freight, stock, and material handlers	8 110	8 480	6 870	5 060	8 723	8 630	7 193	5 937	8 159	8 385	7 582	6 218	11 187	11 517	10 103	12 243
Gang and service station occupations, and equipment cleaners	7 395	7 836	5 704	313	8 377	8 840	7 190	9 675	8 709	8 800	7 355	12 689	11 382	10 125	13 884	—
Hand packers and packagers	7 923	8 039	8 114	5 957	8 542	8 714	8 288	7 020	7 954	8 133	7 654	6 017	9 652	9 608	7 760	7 760
Laborers, except construction	7 369	7 845	8 577	5 812	8 386	8 679	8 127	6 439	7 863	8 173	7 203	6 399	9 857	9 587	10 732	7 499

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Aircraft, space vehicles, and parts				Other transportation equipment				Other durable goods				Transportation, communications, and other public utilities			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed males 16 years and over	21 058	21 591	15 875	15 776	16 072	16 586	13 165	13 499	17 220	18 256	10 772	10 404	18 619	19 286	14 338	15 233
Managerial and professional specialty occupations	27 300	27 593	21 621	22 934	25 124	25 430	17 390	22 875	27 872	28 307	18 829	20 617	24 970	25 319	19 296	20 956
Executive, administrative, and managerial occupations	30 657	31 026	22 883	23 875	27 411	27 661	19 491	21 428	30 592	31 072	19 441	21 234	26 678	27 072	20 233	21 967
Officials and administrators, public administration																
Financial managers	31 918	32 327	19 869	25 125	28 767	29 042	19 969	22 005	31 408	31 659	20 913	25 529	28 276	28 545	23 312	30 063
Managers, marketing, advertising, and public relations	35 718	36 012	24 122	38 627	28 786	28 806	25 609	21 505	32 428	32 579	26 501	27 005	29 336	29 545	24 528	24 949
Administrators, education and related fields	36 299	37 076			24 484	24 484			39 252	42 525	1 585	27 005	25 506	26 810	17 119	16 460
Managers, medicine and health																
Other specified managers	27 566	27 743	24 714	26 661	24 430	24 921	15 317	16 680	26 300	26 764	24 233	12 691	24 213	24 393	22 141	19 732
Managers and administrators, n.e.c.	35 244	35 542	27 394	26 217	30 760	30 886	23 213	24 663	32 564	33 057	18 451	22 832	27 942	28 334	20 837	23 023
Skilled	35 346	35 649	27 394	26 029	31 716	31 891	23 945	25 253	33 275	33 819	17 481	22 257	28 134	28 535	20 824	22 950
Self-employed	23 207	23 155		32 076	18 238	17 804	15 005	10 094	23 448	23 289	31 782	28 594	24 628	24 826	21 042	24 018
Management related occupations	22 382	22 620	18 895	18 544	20 562	20 848	17 217	16 153	21 843	22 330	17 709	15 695	21 840	22 199	18 079	18 376
Accountants and auditors	22 233	22 564	17 337	17 117	21 494	21 850	17 412	15 292	21 178	21 514	18 509	16 182	20 743	21 122	15 718	17 870
Personnel, training, and labor relations specialists	24 959	25 385	21 206	20 639	21 867	22 208	18 191	19 284	22 405	23 238	18 164	17 208	24 231	24 561	20 277	20 277
Buyers and purchasing agents	20 254	20 407	17 972	19 259	19 121	19 296	16 280	14 748	19 418	19 609	14 746	13 883	20 285	20 487	17 365	18 141
Inspectors and compliance officers	21 889	22 440	17 979	14 320	20 073	20 073	5 482	23 005	18 377	19 698	5 168	19 033	19 388	19 388	16 179	16 493
Other management related occupations	25 019	25 148	23 316	16 844	20 118	20 138	18 725	13 505	31 028	31 248	24 683	12 255	24 543	24 919	17 464	18 666
Professional specialty occupations	25 755	25 974	20 930	22 479	22 705	22 958	16 186	24 800	23 278	23 515	17 988	19 333	21 903	22 118	17 787	19 078
Engineers, architects, and surveyors	26 126	26 337	21 082	23 104	23 357	23 584	15 701	25 520	23 408	23 588	19 025	20 982	23 900	24 060	19 956	23 180
Architects	22 775	25 285			21 289	23 583			22 401	23 048			24 069	24 672	18 522	26 041
Engineers	26 126	26 337	21 082	23 104	23 357	23 584	15 701	25 520	23 408	23 588	19 025	20 982	23 900	24 060	19 956	23 180
Civil engineers	26 845	26 661	22 953	24 195	24 456	24 509	16 343	23 520	23 411	23 589	18 867	20 918	23 943	24 100	20 030	22 228
Electrical and electronic engineers	26 182	26 429	22 214	25 118	22 599	22 627	16 424	23 320	23 621	25 328	6 174	32 425	23 033	23 165	19 113	19 744
Industrial engineers	22 501	22 683	19 575	21 283	21 704	22 048	16 244	23 661	23 661	23 687	18 184	22 210	23 369	23 727	23 863	22 478
Mechanical engineers	25 713	25 779	26 377	21 398	24 156	24 360	16 746	25 226	24 002	24 054	21 615	23 460	24 220	24 674	21 912	21 919
Other engineers	26 945	27 195	20 659	23 151	23 949	24 142	16 253	22 640	24 156	24 423	17 117	20 216	25 224	25 380	22 026	26 696
Surveyors and mapping scientists	34 615	34 615			26 313	26 313							18 734	18 904	12 064	13 518
Computer systems analysts and scientists	23 397	23 622	19 980	22 203	22 988	21 793	23 194	18 178	22 875	23 131	14 273	18 439	23 812	23 881	21 289	22 869
Operations and systems researchers and analysts	23 526	23 794	20 433	18 921	19 672	19 911	16 253	25 520	23 904	24 011	21 379	15 121	23 693	23 688	23 117	19 731
Mathematical scientists	24 117	24 478	20 957	17 628	20 707	22 446	1 005		25 207	26 716	24 387	10 005	22 016	22 210	20 428	20 837
Natural scientists	25 906	26 674	15 863	23 036	19 983	20 202	17 069	13 872	24 593	25 073	19 167	18 333	20 333	20 492	19 341	16 278
Chemists, except biochemists	22 229	23 733	15 863	14 159	19 835	19 333	17 658	17 755	24 408	24 918	20 024	20 125	19 482	19 398	22 664	14 244
Other natural scientists	28 367	28 383		28 053	20 119	20 864	10 585	10 765	25 040	25 434	16 208	13 759	20 971	21 249	12 844	17 305
Health diagnosing occupations	34 968	36 017	19 705		34 596	28 550			41 032	42 530		12 005	37 778	39 761	21 630	
Health assessment and treating occupations	19 305	19 305		16 125	22 963	25 126	18 205	10 405	17 952	18 276	18 956	24 605	12 928	12 882	13 995	12 703
Registered nurses	16 060	16 060		16 125	21 917	24 351	14 005	10 405	22 479	19 953	33 005	33 005	20 830	19 953	29 414	
Other health assessment and treating occupations	21 786	21 786			25 505	28 005	23 005		13 114	16 280	225	12 005	12 533	12 579	10 937	12 703
Teachers, except postsecondary	22 987	23 049	20 209	12 239	17 587	17 776	15 193	5 005	18 131	18 731	10 859	11 641	19 429	19 390	21 129	15 919
Social scientists and urban planners	30 175	30 207	20 852	28 104	30 799	30 799			28 066	28 368	20 676	27 831	24 435	24 751	20 766	18 974
Social and recreation workers	21 755	21 755			7 924	7 924			19 664	20 611	12 505		21 210	21 791	16 150	29 195
Lawyers and judges	43 931	44 618	19 245		37 139	37 040	38 257	44 005	51 106	51 952	36 251	90 005	39 767	39 955	35 211	32 043
Writers, artists, entertainers, and athletes	21 670	21 730	22 229	18 873	19 720	20 041	16 253	30 006	19 294	19 520	13 402	16 524	17 666	17 887	14 635	14 243
Other professional specialty occupations	20 573	21 522	10 026	18 205	19 575	21 145	14 026		22 476	22 394			18 175	19 191	13 838	19 261
Technical, sales, and administrative support occupations	19 098	19 452	15 341	15 433	17 570	17 875	14 350	15 181	17 956	18 670	11 421	11 692	18 896	19 358	16 084	15 735
Technicians and related support occupations	19 865	20 063	16 993	17 535	18 510	18 616	14 703	16 798	16 403	16 693	13 695	13 548	24 966	25 522	17 436	18 974
Health technicians and technicians	24 147	24 323		22 430	18 945	18 273	13 196	17 496	18 001	18 394	13 233	13 283	10 442	10 482	9 570	8 769
Licensed practical nurses					18 945			16 505	27 109	29 157	20 285	15 817	15 665	15 665	16 444	
Other health technicians and technicians	24 147	24 323		22 430	17 510	18 273	13 196	16 505	17 882	18 275	12 768	13 283	10 386	10 433	9 378	8 769
Engineering and science technicians	19 030	19 267	16 036	16 805	18 569	18 599	15 315	16 912	15 575	15 859	13 539	13 588	18 180	18 300	16 862	15 630
Electrical and electronic technicians	18 868	19 038	16 866	17 620	19 445	19 520	16 652	17 971	14 792	14 990	13 376	14 436	19 910	19 917	19 920	17 432
Industrial and mechanical engineering technicians	21 375	21 474	16 500	18 105	19 416	20 097	13 322	22 755	17 435	18 193	11 588	11 121	19 530	19 634	17 422	22 236
Drafting and surveying technicians	18 236	18 499	15 549	16 488	16 580	16 744	13 496	15 638	15 190	15 502	13 199	12 862	15 891	16 038	13 811	13 939
Other engineering and science technicians	19 532	19 803	15 106	16 184	20 152	19 966	16 648	18 767	16 671	16 954	14 193	13 534	17 840	18 035	15 850	15 170
Technicians, except health, engineering, and science	21 734	21 871	19 772	19 087	18 279	18 756	11 918	15 859	18 088	18 349	14 326	13 469	29 342	29 958	18 976	21 371
Airplane pilots and navigators	29 308	29 519	17 253	12 598	23 436	23 436			23 307	23 107		005	39 433	39 432	26 406	29 638
Air traffic controllers and broadcast equipment operators	19 613	19 963	15 005	17 535	18 316	18 743	7 629		22 361	23 361	11 005	13 896	19 704	18 570	16 923	14 178
Computer programmers	21 536	21 605	21 654	19 111	18 316	18 906			16 589	16 627	14 292	13 896	19 704	18 570	16 923	17 948
Other technicians, except health, engineering, and science	20 405	20 419	17 691	19 293	18 175	18 642	13 355	17 039	17 693	18 017	14 402	13 424	20 339	20 431	18 332	19 360

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Aircraft, space vehicles, and parts				Other transportation equipment				Other durable goods				Transportation, communications, and other public utilities			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Technical, sales, and administrative support occupations—Con																
Sales occupations—	27 775	28 054	17 197	15 767	21 510	21 658	15 348	14 422	24 457	24 948	15 456	18 900	19 161	19 515	15 157	15 654
Supervisors and proprietors, sales occupations—	26 812	27 574	17 793	17 895	19 399	19 955	12 605	—	23 302	23 847	16 030	17 943	23 872	24 247	16 085	19 745
Salaries—	28 890	27 465	17 793	17 895	20 977	18 776	12 605	—	26 372	28 904	18 850	18 122	24 128	24 342	16 484	19 745
Self-employed—	18 005	18 003	—	—	20 977	18 776	12 605	—	18 076	18 924	19 849	16 048	21 053	21 112	18 016	18 016
Sales representatives, finance and business services—	25 829	25 829	—	—	20 977	18 776	12 605	—	18 076	18 924	19 849	16 048	21 053	21 112	18 016	18 016
Sales representatives, commodities, except retail—	28 788	28 970	17 682	14 457	22 583	22 770	17 467	13 371	25 045	25 297	20 172	19 445	23 943	23 943	13 436	15 582
Sales workers, retail and personal services—	18 940	19 170	7 745	17 428	17 575	19 117	9 005	22 305	15 307	15 604	7 555	6 203	13 744	13 866	12 379	12 379
Other sales occupations, retail and personal services—	19 236	19 503	7 745	17 428	16 884	16 918	13 697	22 305	10 195	11 447	7 555	6 203	13 744	13 866	12 379	12 379
Sales related occupations—	18 500	18 500	—	—	8 005	8 005	—	—	16 533	16 301	20 870	9 305	14 398	14 690	12 814	12 670
Administrative support occupations, including clerical—	17 684	18 104	14 518	14 006	16 229	16 567	14 216	14 030	13 334	13 783	—	—	17 879	20 058	3 894	15 427
Supervisors, administrative support occupations—	23 945	24 215	19 234	19 367	20 483	20 639	18 496	21 481	19 161	19 613	9 872	9 366	17 488	18 018	16 031	15 427
Computer equipment operators—	17 487	18 076	15 400	10 546	17 705	17 822	17 801	19 335	14 989	15 016	16 681	12 588	23 092	23 426	20 418	20 418
Secretaries, stenographers, and typists—	14 057	14 338	12 829	14 888	15 311	15 674	—	766	16 326	17 766	6 955	3 677	10 067	17 454	10 147	14 147
Secretaries—	14 176	14 338	12 829	14 888	15 311	15 674	—	766	16 326	17 766	6 955	3 677	10 067	17 454	10 147	14 147
Stenographers and typists—	13 904	15 652	7 663	16 125	9 423	9 423	—	766	18 702	20 264	6 972	10 505	16 944	17 603	13 735	10 611
Receptionists—	9 005	9 005	—	—	9 732	9 732	—	—	7 776	7 984	6 928	8 005	13 059	13 743	10 493	10 381
Other information clerks—	18 734	18 813	18 116	10 944	10 944	10 944	—	—	12 239	12 493	8 005	8 005	14 458	14 480	14 666	14 666
File clerks—	18 628	18 940	12 635	14 677	15 417	15 676	12 114	12 288	16 819	18 765	8 405	24 005	17 856	18 190	15 438	16 033
Other records processing occupations, except financial—	15 338	15 788	12 647	8 843	17 769	18 584	14 054	—	13 504	13 686	11 120	8 771	13 027	13 023	13 623	10 314
Bookkeepers, accounting, and auditing clerks—	18 476	18 739	15 216	17 679	17 078	17 153	14 568	—	14 466	14 809	14 188	10 131	15 944	16 278	13 311	13 311
Payroll and timekeeping clerks—	15 809	16 514	10 899	15 679	15 818	15 648	15 903	14 543	12 552	13 503	5 005	7 154	18 053	18 181	17 935	16 284
Other financial records processing occupations—	20 115	20 066	19 729	23 384	8 245	8 245	5 005	—	13 318	13 893	13 394	4 425	17 563	17 858	13 811	15 262
Telephone operators—	10 061	10 061	—	—	8 845	8 845	—	—	13 318	13 318	13 318	—	12 976	13 554	10 609	10 356
Mail and message distributing occupations—	17 504	17 847	11 163	11 988	9 798	9 916	9 937	10 005	8 550	8 992	7 702	6 413	17 578	17 733	16 402	16 721
Production coordinators and expeditors—	13 403	13 455	14 955	15 139	18 236	18 337	17 324	15 541	15 452	15 786	11 136	14 534	18 392	18 728	16 402	16 347
Traffic, shipping, and receiving clerks—	15 370	15 788	13 347	12 576	13 488	13 353	14 684	13 253	9 746	10 224	8 501	7 905	15 491	16 090	12 592	12 861
Stock and inventory clerks—	18 405	18 280	20 854	13 016	16 085	14 093	12 521	12 493	11 700	12 071	10 557	8 573	15 310	15 650	13 515	13 286
Other material recording, scheduling, and distributing clerks—	24 853	25 041	23 457	12 991	18 489	18 489	19 260	9 505	15 166	18 005	11 311	14 670	15 681	16 078	13 019	13 457
Adjusters and investigators—	15 517	15 389	12 240	13 960	16 661	19 225	12 994	14 580	12 114	18 005	9 436	9 902	16 428	18 464	16 640	14 552
Data-entry keyers—	17 886	18 429	14 429	14 401	16 324	16 890	12 994	15 688	13 472	14 968	8 043	9 902	16 489	17 959	13 963	15 687
Other administrative support occupations—	15 324	16 050	13 359	11 713	12 300	12 795	10 843	10 585	10 307	10 738	8 932	8 489	13 262	13 869	11 604	11 667
Service occupations—	18 328	18 584	17 311	14 622	13 179	12 950	14 739	—	11 382	11 591	10 081	—	14 749	15 149	13 211	13 638
Private household occupations—	17 697	17 866	17 140	15 304	11 980	11 583	14 532	10 900	10 943	11 120	9 872	12 373	14 247	14 591	13 026	13 369
Guards—	20 888	21 392	18 195	9 787	17 361	17 673	15 558	19 672	16 616	16 616	16 529	8 243	19 357	19 647	16 923	18 648
Other protective service occupations—	13 022	13 618	12 027	10 780	11 707	12 658	9 685	10 666	10 050	10 508	8 738	8 243	12 897	13 503	11 335	11 394
Service occupations, except protective and household—	13 022	13 618	12 027	10 780	11 707	12 658	9 685	10 666	10 050	10 508	8 738	8 243	12 897	13 503	11 335	11 394
Food preparation and service occupation—	13 022	13 618	12 027	10 780	11 707	12 658	9 685	10 666	10 050	10 508	8 738	8 243	12 897	13 503	11 335	11 394
Health service occupations—	13 022	13 618	12 027	10 780	11 707	12 658	9 685	10 666	10 050	10 508	8 738	8 243	12 897	13 503	11 335	11 394
Cleaning and building service occupations, except household—	13 089	13 672	12 225	10 742	11 613	12 442	4 982	10 132	17 181	18 255	20 781	3 634	12 854	13 231	11 336	9 898
Personal service occupations—	17 844	19 203	11 058	—	15 022	14 216	—	—	13 472	14 968	8 043	9 902	12 576	13 173	10 865	10 865
Farming, forestry, and fishing occupations—	15 706	15 931	16 722	10 295	14 437	14 596	14 779	8 679	9 867	11 063	6 342	9 838	11 025	11 467	8 691	10 897
Precision production, craft, and repair occupations—	19 079	19 425	16 253	16 204	15 877	16 066	14 128	14 697	16 059	16 585	12 453	12 015	18 962	19 267	15 908	16 680
Mechanics and repairers—	17 724	17 976	15 832	16 091	15 433	15 538	13 542	14 039	14 592	15 044	11 553	11 965	18 852	19 111	16 477	17 056
Supervisors, mechanics and repairers—	24 176	24 393	21 625	21 714	22 434	22 701	17 157	21 021	21 402	21 870	19 404	16 460	23 482	23 880	20 275	20 777
Automobile mechanics, including body—	17 566	18 194	14 718	13 795	13 701	13 578	14 988	12 826	14 017	14 704	12 551	11 782	14 117	14 280	14 433	14 433
Industrial machinery repairers—	18 196	18 383	15 688	17 820	16 077	16 294	13 106	13 657	14 627	14 948	12 434	11 914	17 753	17 934	15 279	15 093
Electric, electronic, communications and industrial equipment—	17 897	17 633	24 073	20 329	17 833	17 593	14 653	21 354	13 787	14 132	9 777	8 429	16 333	16 528	13 899	13 321
Heating, air conditioning, and refrigeration mechanics—	19 491	19 539	19 291	18 998	17 713	17 616	17 020	16 456	14 341	17 459	10 715	7 783	17 749	17 569	17 145	20 080
Other mechanics and repairers—	17 251	17 517	15 339	15 666	14 509	14 539	13 420	13 144	14 312	14 830	10 864	12 093	18 939	19 193	16 291	17 443
Construction trades—	17 851	18 227	15 085	15 164	14 299	14 399	13 332	13 883	14 826	15 469	11 530	9 168	18 790	19 196	15 572	15 572
Supervisors, construction occupations—	22 120	22 324	20 753	21 032	21 536	21 714	19 221	19 978	19 615	20 405	7 488	9 886	22 876	23 135	18 194	19 604
Carpenters—	18 881	18 829	20 116	17 802	11 742	11 848	10 987	11 381	12 335	12 831	10 442	9 816	15 545	15 769	14 442	14 442
Electricians—	18 638	18 829	16 441	15 309	15 755	15 882	14 270	15 020	16 691	17 143	13 967	11 058	18 486	18 756	15 988	15 906
Painters, construction and maintenance—	14 946	15 278	12 898	14 266	12 561	12 865	12 984	13 153	10 441	11 328	8 329	8 061	15 100	15 409	12 953	12 953
Plumbers, pipefitters, and steamfitters—	17 975	18 642	13 509	13 193	14 869	14 965	14 556	16 403	18 906	19 444	14 834	15 437	16 995	17 391	12 381	13 836
Other construction trades—	16 837	17 635	14 264	16 097	14 451	14 390	13 077	15 520	13 064	13 360	10 849	7 399	19 061	19 424	15 447	15 987

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Aircraft, space vehicles, and parts				Other transportation equipment				Other durable goods				Transportation, communications, and other public utilities			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Precision production, craft, and repair occupations—Con.																
Extrusive occupations	10,832	12,746	4,981	24,005	13,598	13,783	12,665	19,005	12,741	13,328	10,955	10,120	18,242	18,387	17,516	14,042
Precision production occupations	9,699	20,066	16,620	16,368	17,711	17,944	15,645	16,068	16,647	17,169	12,941	12,450	19,369	19,687	15,809	16,658
Suppliers, production occupations	24,754	24,593	19,814	21,055	20,843	21,004	18,216	18,859	16,647	17,062	14,693	14,272	21,249	21,577	17,451	17,451
Precision production occupations	16,794	17,038	14,883	15,843	15,353	14,840	14,973	14,630	14,629	15,064	11,683	11,842	18,595	18,853	15,997	17,574
Tool and die makers	18,302	18,506	15,967	17,073	18,780	19,021	14,892	18,068	18,013	14,617	15,431	15,083	19,098	19,230	17,791	12,791
Mechanists	16,874	17,134	14,859	15,346	16,198	16,141	15,576	17,327	14,037	14,417	11,491	11,024	18,417	18,728	15,504	17,515
Sheet metal workers	15,474	15,665	14,648	13,282	15,371	14,081	14,520	14,028	14,542	14,977	11,303	12,263	19,099	19,257	18,766	18,766
Other precision metal workers	15,110	16,478	14,697	14,160	14,435	14,520	13,762	13,065	13,661	14,149	10,436	12,059	18,912	19,128	16,818	16,583
Precision textile, apparel, and furnishings machine workers	13,014	13,269	15,283	9,708	11,539	11,147	13,005	9,543	11,500	12,070	9,594	7,558	12,443	12,940	9,726	9,726
Precision food production occupations	17,089	16,802	7,905	17,321	17,321	17,321	17,321	3,365	11,500	12,070	9,594	7,558	12,443	12,940	9,726	9,726
Precision inspectors, testers, and related workers	18,606	18,625	18,234	22,627	17,961	18,071	12,112	27,388	13,644	14,500	8,998	10,476	17,342	19,975	17,753	17,753
Plant and system operators	23,001	21,617	22,627	22,627	20,922	21,548	9,922	24,497	20,310	20,929	15,049	8,479	16,638	16,870	14,048	14,956
Other precision production occupations	16,580	16,700	19,158	12,657	12,766	13,423	11,067	9,316	13,524	13,986	10,359	11,102	17,553	17,681	17,900	14,095
Operators, fabricators, and laborers	15,773	16,191	14,096	12,974	13,443	13,811	12,280	11,844	10,685	11,205	9,435	8,360	16,371	17,129	12,967	13,654
Machine operators, assemblers, and inspectors	15,910	16,334	14,088	13,223	13,595	13,938	12,461	12,100	10,962	11,468	9,683	8,608	16,429	16,981	13,523	13,986
Machine operators and tenders, except precision	15,674	16,062	14,326	12,959	13,178	13,509	12,112	12,084	11,644	11,732	9,673	8,673	15,441	16,083	12,765	13,164
Metalworking and plastic working machine operators	16,223	16,478	15,317	13,296	13,950	14,255	15,590	12,949	11,503	11,971	9,237	9,685	16,686	17,125	14,516	15,503
Fabricating machine operators, n.e.c.	15,663	15,610	15,955	15,126	14,122	13,825	15,092	15,069	11,020	11,246	8,943	10,270	15,559	16,519	14,495	12,121
Metal and plastic processing and woodworking machine operators	15,341	15,670	14,995	12,913	11,924	12,514	10,369	13,092	10,799	11,124	9,670	8,434	13,430	14,555	9,556	12,471
Printing machine operators	15,876	16,155	14,346	12,634	11,082	11,829	6,755	6,513	12,998	13,279	11,818	10,316	13,757	13,835	13,479	13,920
Textile machine operators	14,314	14,793	5,905	11,333	9,517	9,865	7,868	9,275	9,486	10,190	6,561	9,577	15,738	17,193	12,551	7,581
Textile sewing machine operators	15,912	15,012	18,475	11,692	11,084	11,692	—	—	8,447	9,050	7,759	6,664	11,935	12,465	4,005	4,005
Laundry and dry cleaning machine operators	15,799	15,799	—	—	13,005	13,005	13,005	—	8,843	8,843	6,411	—	13,247	13,179	6,930	11,507
Packaging and filling machine operators	15,799	15,799	—	—	13,005	13,005	13,005	—	8,843	8,843	6,411	—	13,247	13,179	6,930	11,507
Food and kindred product machine operators	15,799	15,799	—	—	13,005	13,005	13,005	—	8,843	8,843	6,411	—	13,247	13,179	6,930	11,507
Other specified machine operators	15,246	15,387	14,796	13,927	12,664	12,850	11,989	11,045	12,191	12,696	10,467	11,802	15,143	14,749	16,684	15,875
Miscellaneous and not specified machine operators	15,115	15,752	13,169	12,282	13,447	13,695	13,266	12,451	10,793	11,402	9,684	8,567	14,088	14,853	10,468	12,385
Fabricators, assemblers, and hand working occupations	15,075	15,532	13,530	13,115	13,237	13,499	12,412	11,984	9,953	10,324	9,401	8,246	16,700	17,157	12,715	14,416
Welders and cutters	9,728	16,322	14,997	14,070	13,883	14,037	12,383	13,010	9,712	10,271	10,724	10,501	17,381	17,736	14,825	14,825
Solders and brazers	14,836	15,308	13,140	12,894	12,464	12,986	11,677	9,302	9,300	9,667	8,183	8,453	14,493	14,935	12,352	13,305
Assemblers	15,432	15,049	15,558	13,882	13,983	13,753	14,090	12,810	10,393	10,763	9,765	7,597	13,482	14,011	12,552	13,522
Hand working occupations	17,892	18,172	14,719	15,539	18,398	18,726	16,141	15,285	13,607	13,982	11,972	10,377	18,544	18,581	12,466	12,585
Graders and sorters, except agricultural	15,933	15,933	—	11,534	13,269	13,747	—	—	10,435	11,524	4,763	8,553	11,269	10,758	13,126	16,286
Other production inspectors, testers, samplers, and weighers	17,897	18,179	14,719	15,592	18,421	18,657	16,141	15,285	13,713	14,055	11,614	10,494	18,585	18,893	15,699	16,884
Transportation and material moving occupations	16,101	16,507	14,080	12,800	15,031	15,497	13,249	13,151	11,548	12,098	10,281	8,954	17,507	18,171	13,971	14,486
Transportation occupations	16,266	16,807	13,927	12,045	15,235	15,799	13,249	12,715	12,285	12,880	10,803	8,919	17,573	18,237	13,974	14,486
Motor vehicle operators	16,038	16,926	13,359	12,106	14,587	15,028	13,544	12,010	12,242	12,880	10,785	9,011	16,772	17,355	13,413	14,339
Truck drivers	14,199	15,776	13,339	11,880	14,355	14,822	13,142	11,172	12,323	12,905	10,950	9,011	16,772	17,355	13,413	14,339
Over-the-road truck drivers	14,199	15,776	13,339	11,880	14,355	14,822	13,142	11,172	12,323	12,905	10,950	9,011	16,772	17,355	13,413	14,339
Other motor vehicle operators	18,331	18,405	16,352	16,131	17,429	17,784	14,860	14,143	10,497	12,416	10,492	7,910	16,925	16,838	12,393	13,043
Rail and water transportation occupations	15,357	15,019	18,075	11,107	17,069	17,984	12,169	14,714	10,497	12,416	10,492	7,910	16,925	16,838	12,393	13,043
Material moving occupations	15,989	12,247	14,675	13,499	14,927	15,354	13,169	13,421	10,888	11,345	9,820	8,981	16,488	16,999	13,904	14,367
Supervisors, material moving equipment operators	22,655	22,655	—	49,010	21,385	21,385	19,005	13,025	17,523	17,371	23,180	14,631	21,748	22,429	13,582	21,030
Crane, hoist, and winch operators	18,442	18,749	18,084	44,417	15,726	16,086	14,069	14,703	14,806	15,199	13,923	12,601	18,744	19,091	16,837	18,860
Excavating, grading, and loader machine operators	18,170	18,170	—	17,726	17,726	17,087	20,735	9,888	11,101	11,890	9,888	12,005	15,944	15,944	13,037	13,037
Other material moving equipment operators	14,894	15,100	13,789	12,432	13,556	13,976	11,912	12,749	10,417	10,866	9,381	8,723	15,124	15,646	13,366	13,111
Handlers, equipment cleaners, helpers, and laborers	13,166	13,367	14,218	9,556	11,126	11,318	10,854	9,271	8,618	9,002	8,045	6,893	12,502	13,086	10,883	11,530
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	17,321	17,321	—	—	15,173	17,884	10,111	—	17,125	18,729	7,368	—	21,010	21,834	16,946	19,221
Helpers, craft and production	11,367	12,239	12,239	10,567	9,945	9,945	10,337	8,536	7,179	8,380	6,980	5,867	11,678	11,915	10,346	10,346
Construction laborers	16,627	17,074	15,055	16,079	11,976	13,965	5,472	8,214	11,573	13,032	6,518	10,234	13,658	14,235	11,287	12,183
Freight, stock, and material handlers	13,886	13,597	16,515	16,079	12,669	12,997	11,847	8,957	9,428	9,877	8,446	7,248	12,855	13,478	11,158	11,902
Gang and service station attendants, and equipment cleaners	11,400	12,110	10,557	6,452	11,401	12,230	10,706	10,075	8,209	8,422	7,796	6,209	11,557	11,796	11,183	10,281
Hand packers and packagers	14,730	15,128	14,145	10,636	11,632	11,572	12,506	5,781	7,909	8,149	7,940	6,608	10,149	10,888	8,595	8,296
Laborers, except construction	12,879	13,072	14,906	7,880	11,167	11,294	11,077	9,628	8,634	8,955	8,128	7,076	11,908	12,463	10,296	11,474

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Aircraft, space vehicles, and parts				Other transportation equipment				Other durable goods				Transportation, communications, and other public utilities			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over	12 330	12 532	11 425	10 161	9 833	9 867	9 941	7 727	8 292	8 515	7 551	6 519	11 587	11 519	12 095	10 774
Managerial and professional specialty occupations	15 755	15 906	14 354	13 988	13 886	13 873	14 481	9 339	13 313	13 390	12 447	11 273	15 540	15 551	15 967	14 311
Executive, administrative, and managerial occupations	15 608	15 747	14 316	13 501	13 810	13 752	14 743	10 118	13 710	13 781	13 439	12 006	15 949	15 952	16 462	14 451
Officials and administrators, public administration	17 195	17 452	18 088	11 924	13 305	13 173	—	—	15 653	15 559	20 579	12 058	17 406	17 516	18 840	15 095
Financial managers	14 250	14 250	6 905	8 985	13 770	14 048	—	—	14 998	14 922	16 364	11 995	18 120	18 174	19 313	14 936
Managers, marketing, advertising, and public relations	6 905	—	—	—	—	—	—	—	9 333	8 236	17 005	—	10 358	10 275	12 174	—
Administrators, education and related fields	17 098	17 367	14 300	10 756	13 186	12 849	19 505	12 005	15 036	15 244	13 764	14 046	15 278	15 066	20 649	14 033
Managers, medicine and health	17 071	17 071	16 930	13 494	13 826	13 831	15 008	153	14 191	14 337	12 669	12 128	16 296	16 286	17 152	14 534
Managers and administrators, n.e.c.	17 199	17 203	16 930	13 694	14 392	14 433	15 908	305	15 028	15 202	13 048	12 657	16 557	16 557	17 196	14 726
Salaries	10 665	10 665	—	—	7 891	7 891	—	—	7 355	7 317	5 928	6 271	10 304	10 359	11 160	10 043
Self-employed	14 754	14 895	13 927	14 002	13 928	13 856	14 293	12 546	12 394	12 363	13 134	11 240	15 315	15 387	14 914	14 539
Management-related occupations	14 456	14 550	14 949	13 874	13 255	13 341	12 138	11 324	12 410	12 375	12 750	10 325	13 486	13 563	12 728	12 278
Accountants and auditors	15 511	15 752	13 839	14 759	15 023	14 635	16 733	16 794	12 683	12 804	12 480	11 461	18 311	18 360	17 839	17 895
Personnel, training, and labor relations specialists	14 065	14 121	13 993	12 615	13 400	13 182	17 336	16 794	11 960	11 812	15 155	11 137	14 344	14 344	13 907	16 465
Buyers and purchasing agents	23 227	23 227	—	—	12 345	12 217	14 505	10 557	11 693	11 693	—	—	13 231	13 186	14 172	12 181
Inspectors and compliance officers	15 831	16 249	10 457	17 805	17 033	17 618	17 005	10 557	13 216	13 258	10 963	16 370	16 574	16 844	15 225	19 702
Other management related occupations	15 924	16 088	14 141	14 812	14 119	14 251	13 911	7 615	12 363	12 434	10 299	9 466	14 554	14 553	15 058	13 991
Professional specialty occupations	16 469	16 624	14 165	15 315	14 104	14 650	11 028	11 797	14 317	14 357	12 257	13 683	17 386	17 627	16 024	18 809
Engineers, architects, and surveyors	7 005	7 005	—	—	14 136	14 699	—	11 797	17 005	17 005	—	—	17 927	19 209	4 005	4 005
Architects	16 483	16 640	14 165	15 315	14 136	14 699	—	11 797	17 005	17 005	—	—	17 927	19 209	4 005	4 005
Engineers	10 608	9 736	10 938	18 335	14 371	14 040	—	—	13 730	13 730	—	20 205	14 951	17 637	16 133	19 038
Civil engineers	19 244	20 953	6 478	13 325	14 371	14 040	—	—	13 730	13 730	—	20 205	14 951	17 637	16 133	19 038
Electrical and electronic engineers	14 872	14 705	17 946	13 679	13 843	13 712	14 950	8 325	12 723	12 723	13 598	10 444	18 825	18 121	16 126	19 636
Industrial engineers	15 841	15 374	15 005	15 005	17 392	17 392	—	—	12 133	10 334	12 005	—	15 345	15 413	23 478	11 281
Mechanical engineers	17 166	17 451	14 085	15 959	12 505	12 505	7 105	17 005	15 437	15 835	8 415	14 983	16 499	16 812	15 712	17 681
Other engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Surveyors and mapping scientists	16 264	16 634	13 565	15 368	16 611	16 420	18 159	14 505	16 221	16 132*	16 834	6 997	19 406	19 462	18 810	15 049
Computer systems analysts and scientists	16 590	16 890	12 145	10 733	16 465	16 672	13 719	—	16 690	16 959	12 912	8 563	19 406	19 462	18 810	15 049
Operations and systems researchers and analysts	15 739	15 488	16 125	15 596	30 195	30 195	—	—	12 578	13 506	2 346	—	17 810	15 925	31 530	16 179
Mathematical scientists	15 880	15 875	17 781	8 005	14 756	9 928	18 779	—	13 987	14 291	10 408	15 253	14 050	14 267	12 272	13 256
Natural scientists	16 869	16 701	20 205	8 005	16 866	12 065	18 779	—	14 097	14 414	8 270	15 541	14 732	14 901	13 898	14 495
Chemists, except biochemists	13 537	13 651	15 543	8 005	8 005	8 005	—	—	13 733	13 951	12 672	14 245	13 308	13 634	9 990	10 005
Other natural scientists	28 734	32 243	17 505	16 713	14 567	14 614	—	—	12 646	12 646	—	—	25 351	26 204	20 657	—
Health diagnosing occupations	14 690	14 558	14 780	16 713	14 578	14 625	13 005	—	14 342	14 297	15 067	—	12 876	12 604	15 431	12 846
Health assessment and treating occupations	14 528	14 382	14 780	16 713	14 578	14 625	13 005	—	14 698	14 658	15 067	—	14 592	14 475	15 964	12 581
Registered nurses	23 104	23 104	—	—	14 005	14 005	—	—	11 531	11 531	—	—	9 173	9 087	8 130	14 505
Other health assessment and treating occupations	13 805	13 771	—	—	7 005	7 005	—	—	8 942	8 744	12 603	9 423	14 322	14 003	16 012	23 682
Teachers, except postsecondary	15 980	16 149	14 005	—	12 221	12 221	—	—	14 370	14 230	18 005	9 115	16 184	16 281	16 160	16 901
Social scientists and urban planners	17 106	17 106	—	—	14 505	14 505	—	—	8 284	8 297	8 045	—	11 879	12 676	9 861	11 148
Social and recreation workers	49 319	49 319	—	—	27 630	10 005	33 505	—	17 062	16 397	25 485	—	23 073	23 691	18 879	26 841
Lawyers and judges	13 953	14 084	14 306	15 184	11 139	11 884	7 883	3 689	10 023	10 198	6 880	7 480	12 229	12 246	12 856	11 500
Writers, artists, entertainers, and athletes	13 739	13 991	13 545	18 005	9 667	9 667	—	—	13 952	14 019	8 228	21 325	13 006	12 650	14 652	13 048
Other professional specialty occupations	12 040	12 204	10 964	10 532	9 787	9 763	10 168	8 518	9 133	9 212	8 635	7 697	11 327	11 155	12 360	10 776
Technical, sales, and administrative support occupations	12 641	13 970	11 910	12 065	10 924	10 891	9 573	11 514	10 779	10 919	9 293	10 641	13 347	13 290	13 584	14 115
Technicians and related support occupations	11 653	10 832	18 905	—	10 701	10 233	9 837	10 860	9 511	9 667	8 045	7 603	11 879	12 676	9 861	11 148
Health technologists and technicians	11 867	11 867	—	—	11 625	12 237	9 837	12 415	10 101	10 344	7 005	—	8 349	8 652	8 405	8 405
Licensed practical nurses	11 566	10 343	18 905	—	9 739	9 788	—	9 305	9 439	9 578	6 810	7 603	6 932	6 730	9 009	10 451
Other health technologists and technicians	12 886	13 265	9 788	12 322	9 854	9 870	7 133	10 972	10 329	10 407	9 779	10 842	12 970	12 950	12 838	13 377
Engineering and science technicians	12 822	12 973	9 788	12 735	13 011	14 705	7 504	10 005	10 580	10 653	7 819	12 417	14 570	14 877	13 501	12 599
Electrical and electronic technicians	15 195	15 237	15 005	15 500	11 446	11 446	—	—	13 106	12 478	—	19 245	13 027	12 160	15 005	26 605
Industrial and mechanical engineering technicians	12 353	12 792	9 500	10 355	9 540	9 056	8 591	10 222	9 744	9 771	15 009	8 461	12 299	12 163	12 746	13 217
Drafting and surveying technicians	13 198	13 667	14 298	11 979	8 933	5 683	10 585	12 505	10 386	10 515	9 825	10 641	13 394	13 394	12 652	13 687
Other engineering and science technicians	15 007	15 114	14 498	11 681	12 869	12 645	15 802	13 741	12 143	12 465	8 911	12 146	14 561	14 606	14 428	15 203
Technicians, except health, engineering, and science	15 610	15 610	—	—	9 205	9 205	—	—	—	—	—	—	16 636	16 503	6 031	12 542
Airplane pilots and navigators	18 400	18 400	—	—	13 625	13 625	—	—	14 840	14 840	—	—	9 822	10 053	9 140	14 562
Air traffic controllers and broadcast equipment operators	15 634	15 618	16 620	11 445	13 855	13 855	18 489	15 005	13 572	13 794	10 866	8 670	15 455	15 557	14 843	14 225
Computer programmers	12 938	13 300	11 438	12 344	11 921	11 706	12 732	13 425	11 058	11 405	7 938	12 613	15 369	15 219	16 402	16 580
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

*Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Aircraft, space vehicles, and parts				Other transportation equipment				Other durable goods				Transportation, communications, and other public utilities			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over—Con.																
Technical, sales, and administrative support occupations—																
Sales occupations—	11 605	11 664	12 907	7 630	8 889	8 963	9 536	1 005	10 028	10 204	9 589	6 923	9 933	9 810	11 677	9 382
Supervisors and proprietors, sales occupations—	14 974	14 430	17 181	—	19 872	14 924	—	—	10 177	10 433	8 136	8 845	15 966	16 026	16 484	15 488
Salaries—	14 974	14 430	17 181	—	19 872	20 630	—	—	11 482	11 740	8 136	10 081	16 408	16 517	16 484	16 517
Self-employed—	23 467	23 467	—	—	—	—	—	—	5 077	5 695	—	—	9 630	9 630	—	7 965
Sales representatives, finance and business services—	13 671	14 262	14 005	10 616	8 845	8 740	16 281	—	11 985	12 238	10 989	—	9 816	9 709	12 680	9 015
Sales representatives, commodities, except retail—	8 977	8 619	11 370	5 126	6 097	6 351	6 568	1 005	6 781	7 273	5 549	3 100	7 756	7 153	10 528	9 608
Sales workers, retail and personal services—	8 175	8 000	9 272	3 958	5 813	6 069	6 568	1 005	6 048	6 681	9 783	3 089	9 560	9 560	10 559	9 032
Cashiers—	13 202	12 480	15 449	7 250	6 665	6 665	—	—	8 296	8 306	9 783	3 305	9 302	9 299	9 973	7 005
Other sales occupations, retail and personal services—	3 505	3 505	—	—	—	—	—	—	5 935	5 935	—	—	11 792	11 670	14 735	12 005
Sales related occupations—	11 902	12 042	10 866	10 430	9 748	9 726	10 211	8 379	8 929	9 003	8 508	7 427	11 402	11 233	12 364	10 786
Administrative support occupations, including clerical—	16 762	16 988	13 260	10 765	17 703	13 669	13 980	15 745	12 461	12 625	11 663	9 550	17 259	17 303	17 066	16 340
Supervisors, administrative support occupations—	11 899	12 185	11 324	8 483	10 932	10 790	12 024	9 788	8 470	10 046	10 868	8 893	11 808	11 667	12 803	11 303
Computer equipment operators—	11 596	11 695	10 450	10 272	9 541	9 549	9 615	9 788	9 041	9 097	8 423	7 523	10 086	10 064	10 325	9 609
Secretaries, stenographers, and typists—	11 853	11 949	10 719	10 519	9 825	9 866	9 638	9 895	9 346	9 385	8 847	7 929	10 200	10 165	10 626	9 730
Secretaries—	10 346	10 386	9 690	9 578	8 643	8 439	9 583	9 278	6 766	6 801	7 221	5 575	9 685	9 644	9 941	9 275
Stenographers and typists—	8 939	9 153	7 426	9 272	7 084	7 033	8 152	10 792	6 781	6 950	5 498	6 999	7 533	7 432	8 286	6 315
Receptionists—	11 652	12 015	8 124	8 062	7 772	7 021	7 373	6 825	7 775	7 892	5 327	7 637	12 382	12 431	12 109	10 811
Other information clerks—	10 137	10 332	8 295	8 905	6 062	6 554	7 373	11 725	7 055	7 231	6 206	5 451	8 755	8 815	8 566	7 616
File clerks—	11 613	11 633	10 163	10 062	11 829	12 232	9 912	10 821	8 760	8 919	7 720	3 390	12 458	12 438	12 753	12 126
Other records processing occupations, except financial—	12 296	12 432	11 306	11 054	9 420	9 306	10 180	5 206	9 051	9 031	9 713	8 604	9 564	9 437	11 097	10 385
Bookkeepers, accounting, and auditing clerks—	12 164	12 377	10 384	14 637	10 234	9 906	13 532	11 286	9 484	9 673	8 361	6 895	12 575	12 417	13 443	11 990
Payroll and timekeeping clerks—	11 776	11 735	13 378	8 757	10 263	10 470	9 398	8 105	8 756	8 814	8 398	6 769	10 510	10 461	10 852	10 406
Other financial records processing occupations—	10 931	10 944	8 181	9 608	9 629	9 305	11 165	8 005	7 758	7 866	7 909	4 836	10 270	10 323	10 181	9 406
Telephone operators—	10 681	10 147	8 570	9 747	7 176	7 388	6 184	10 805	6 681	6 264	8 341	7 448	13 013	12 107	15 271	13 094
Mail and message distributing occupations—	13 718	13 802	14 417	13 617	11 732	11 860	9 392	12 652	10 173	10 365	9 046	8 035	11 805	11 739	12 329	11 118
Production coordinators and expeditors—	10 892	10 039	14 017	5 981	10 629	10 507	11 783	5 778	6 720	7 682	8 001	6 662	11 301	11 392	10 716	10 185
Traffic, shipping, and receiving clerks—	12 405	12 423	12 557	10 856	10 695	10 357	12 358	7 988	8 723	8 893	7 597	7 779	11 285	11 353	10 966	10 461
Stock and inventory clerks—	13 683	13 680	13 763	11 391	9 319	10 691	4 237	6 745	8 284	8 230	9 961	8 831	10 473	10 431	10 766	10 376
Other material recording, scheduling, and distributing clerks—	13 855	14 366	9 293	12 272	8 966	9 295	6 369	11 505	10 778	10 854	10 297	7 637	12 138	12 081	12 701	11 392
Adjusters and investigators—	11 369	11 393	10 757	10 896	9 761	9 985	9 314	6 001	8 891	8 726	7 306	7 488	10 567	10 511	10 430	10 547
Data-entry keyers—	11 563	11 798	10 213	10 163	9 097	8 895	10 430	6 001	8 146	8 233	7 661	6 558	11 096	11 048	11 395	10 622
Other administrative support occupations—	10 352	10 409	9 863	10 274	7 943	7 480	8 974	8 799	6 611	6 936	5 866	5 689	11 190	11 696	9 011	9 342
Service occupations—	13 749	13 745	14 607	13 793	8 536	7 985	9 351	18 205	9 330	9 513	8 750	10 482	8 749	8 899	8 764	6 459
Private household occupations—	12 998	12 950	13 843	13 793	8 906	8 284	9 351	18 205	9 477	9 520	9 409	10 482	8 602	8 713	8 727	6 239
Protective service occupations—	17 449	17 367	18 005	—	6 813	6 813	—	—	8 026	9 440	4 444	—	13 249	13 591	10 838	15 005
Other protective service occupations—	9 607	9 555	9 401	9 488	7 865	7 389	8 961	5 977	6 352	6 675	5 623	5 562	11 316	11 829	7 029	9 492
Food preparation and service occupation—	7 285	7 352	5 522	—	7 767	6 632	10 046	—	6 838	7 006	7 827	7 243	8 080	8 329	7 604	6 773
Health service occupations—	9 995	13 593	5 522	—	9 017	8 339	11 435	—	7 800	7 784	5 288	8 233	9 817	6 891	7 634	2 198
Cleaning and building service occupations, except household—	10 865	10 896	10 587	9 801	7 737	7 482	8 435	5 977	6 121	6 553	5 281	4 844	7 449	6 595	8 234	6 385
Personal service occupations—	6 018	7 347	2 440	—	10 331	7 321	13 182	—	5 764	5 710	6 326	7 350	12 980	13 302	10 432	12 108
Farming, forestry, and fishing occupations—	8 751	8 375	10 005	—	7 657	3 989	10 671	—	7 168	7 723	5 311	9 339	7 997	8 679	7 065	1 278
Precision production, craft, and repair occupations—	12 643	12 904	12 225	10 473	9 648	9 595	9 683	8 031	8 436	8 553	8 325	7 540	14 302	14 378	14 103	14 157
Mechanics and repairers—	12 851	12 682	14 255	9 930	8 930	9 002	7 880	7 520	8 824	8 943	8 118	9 419	15 061	15 227	14 250	14 967
Supervisors, mechanics and repairers—	12 719	12 719	—	20 005	9 675	9 330	—	12 005	10 879	10 879	—	—	18 166	18 105	17 502	20 594
Automobile mechanics, including body—	14 289	14 070	15 005	—	10 619	4 388	13 005	4 265	5 329	5 329	7 542	15 377	13 680	13 909	12 206	15 163
Industrial machinery repairers—	10 691	10 316	11 738	14 045	9 305	9 422	8 005	10 005	9 405	9 479	8 263	15 377	13 807	13 395	14 990	18 872
Electronic repairers, communications and industrial equipment—	21 172	21 172	—	—	—	—	—	—	9 279	8 816	10 174	11 249	12 143	12 110	12 410	10 807
Heating, air conditioning, and refrigeration mechanics—	12 846	12 648	14 501	9 561	8 280	8 396	7 050	5 992	9 950	9 950	8 773	7 324	13 820	13 162	20 505	10 797
Other mechanics and repairers—	12 619	12 727	12 863	12 115	8 583	8 610	8 365	8 166	6 485	6 430	6 774	4 949	10 947	10 655	12 876	12 074
Construction trades—	13 576	13 576	—	—	6 205	6 205	—	—	9 628	11 031	9 315	5 005	16 003	17 390	13 908	11 588
Supervisors, construction occupations—	13 564	13 623	24 005	—	7 327	7 230	6 561	8 936	4 822	4 815	6 359	4 815	10 972	9 990	13 717	—
Carpenters—	13 569	13 634	13 149	14 401	10 623	10 556	10 815	9 105	8 117	8 514	7 380	6 957	13 509	13 371	13 993	11 588
Electricians—	9 661	10 906	4 750	8 050	9 011	10 258	8 258	8 779	5 125	5 149	5 124	4 802	10 133	10 489	10 044	9 938
Painters, construction and maintenance—	13 803	13 803	—	—	8 206	8 311	8 094	13 128	16 603	16 603	13 297	4 802	7 210	7 275	6 551	15 099
Plumbers, pipefitters, and steamfitters—	11 010	11 017	10 833	13 641	8 542	8 460	8 643	2 268	6 351	6 290	6 839	3 355	9 576	8 727	12 964	11 553
Other construction trades—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Aircraft, space vehicles, and parts				Other transportation equipment				Other durable goods				Transportation, communications, and other public utilities			
	Race			Spanish origin ¹	Race				Race				Race			
	Total	White	Black		Total	White	Black	Spanish origin ¹	Total	White	Black	Spanish origin ¹	Total	White	Black	Spanish origin ¹
Precision production, craft, and repair occupations—Con																
Extrusive occupations	7 329	8 423	5 505	—	9 005	9 005	—	8 007	9 750	9 868	9 505	—	5 898	7 150	2 561	5 005
Precision production occupations	12 611	12 964	11 783	10 419	11 069	10 792	12 277	12 322	8 454	8 571	8 429	7 511	13 344	13 540	14 193	12 681
Supervisors, production occupations	16 715	16 994	14 673	15 085	14 529	14 061	15 261	12 522	10 873	11 018	10 740	8 996	15 836	15 890	16 156	13 521
Precision metalworking occupations	11 568	11 787	11 143	9 149	10 375	10 127	10 065	8 140	6 471	6 358	7 629	6 847	13 716	13 819	13 185	12 445
Tool and die makers	14 884	14 664	12 993	18 605	9 092	9 471	8 065	18 005	10 304	11 442	4 741	6 860	13 630	13 630	—	—
Machinists	12 039	12 494	14 802	7 523	12 369	11 230	14 898	18 005	8 290	8 285	7 453	3 468	12 905	12 982	12 575	—
Sheet metal workers	10 942	11 196	10 146	10 136	10 345	10 618	10 492	10 005	5 727	6 385	7 444	3 468	14 517	14 517	—	—
Other precision metal workers	11 551	12 118	9 174	9 077	9 611	9 536	10 523	6 455	5 727	5 815	5 111	5 083	14 254	14 385	13 720	12 445
Precision textile, apparel, and furnishings machine workers	11 517	11 541	12 622	12 895	6 339	6 335	4 145	5 516	6 337	6 406	5 368	5 707	8 393	8 037	11 555	7 727
Precision food production occupations	8 380	7 823	6 190	24 005	6 181	10 785	10 785	8 505	7 280	3 144	2 706	1 725	13 406	13 475	13 685	11 386
Precision inspectors, testers, and related workers	13 616	13 878	12 084	12 523	10 401	11 907	10 785	8 505	10 357	10 785	6 403	5 005	10 816	10 929	10 140	11 537
Plant and system operators	14 667	14 646	12 084	12 523	10 401	11 907	10 785	8 505	10 357	10 785	6 403	5 005	10 816	10 929	10 140	11 537
Other precision production occupations	11 114	11 321	11 642	9 476	8 153	8 017	12 005	8 681	7 728	7 754	7 866	7 247	8 858	9 005	6 932	13 460
Operators, fabricators, and laborers																
Machine operators, assemblers, and inspectors	10 872	11 034	10 961	8 873	8 821	8 759	9 524	6 990	7 090	7 230	7 004	5 924	7 525	7 281	8 713	6 981
Machine operators and tenders, except precision	10 888	11 039	11 029	8 906	9 022	8 889	9 945	6 990	7 163	7 295	7 119	5 971	9 654	9 721	8 336	8 778
Metalworking and plastic machine operators	10 760	11 004	10 734	8 696	8 791	8 696	9 112	6 663	6 942	7 112	6 852	5 663	9 996	10 215	9 697	8 905
Fabricating machine operators, n.e.c.	10 884	11 008	11 087	9 926	9 921	9 501	13 009	7 861	7 425	7 522	7 604	6 298	9 235	9 438	8 528	7 450
Metal and plastic processing and woodworking machine operators	10 920	10 923	10 919	—	10 332	10 139	8 005	9 835	7 006	7 332	5 899	5 241	8 983	9 768	9 430	3 115
Printing machine operators	10 420	10 572	10 928	7 433	7 680	7 650	7 731	3 917	7 530	7 375	7 850	7 427	8 782	9 200	5 519	6 576
Textile machine operators	11 583	13 111	6 288	11 671	6 913	7 276	5 519	6 990	8 378	8 551	6 921	6 990	9 460	8 881	12 031	8 778
Textile sewing machine operators	10 465	10 545	12 055	17 005	7 396	7 941	5 674	6 629	7 282	7 366	7 606	6 405	8 011	9 967	6 601	1 885
Laundry and dry cleaning machine operators	9 428	9 632	9 480	6 982	7 291	7 423	5 674	6 629	5 512	5 553	5 764	4 597	8 262	6 398	14 449	—
Furnace, kiln, and oven operators, except food	11 865	11 865	—	—	4 885	6 409	4 885	1 555	7 995	7 372	9 397	4 083	8 815	7 659	9 749	7 480
Other specified machine operators	8 051	8 051	15 323	3 005	8 651	8 824	13 436	7 145	6 144	6 190	6 333	6 190	6 102	6 727	6 352	7 480
Miscellaneous and not specified machine operators	11 407	11 480	9 773	7 019	9 884	9 402	8 098	7 145	7 891	8 026	4 637	6 172	15 276	16 715	14 318	7 220
Fabricators, assemblers, and hand working occupations	10 589	10 448	11 057	9 041	9 016	8 892	9 784	6 958	7 006	7 089	7 082	6 095	9 364	9 622	8 931	8 388
Welders and cutters	11 149	11 595	13 777	7 183	10 528	10 503	10 367	10 406	7 085	7 085	7 382	6 095	13 455	14 776	9 155	13 760
Solders and brazers	9 778	9 639	10 790	9 513	8 361	8 481	10 792	5 905	7 682	7 645	7 572	7 779	9 220	8 707	10 710	9 091
Assemblers	10 578	10 693	10 790	9 157	8 361	8 383	9 157	8 988	6 988	7 075	7 075	6 035	8 715	8 930	8 485	7 898
Hand working occupations	11 052	10 894	12 106	9 579	8 432	9 988	13 168	8 388	6 266	6 219	6 420	6 223	11 162	11 412	12 935	9 673
Production inspectors, testers, samplers, and weighers	11 934	12 072	11 896	10 259	10 451	10 149	13 168	10 991	8 540	8 614	8 621	7 284	9 124	9 027	11 049	7 185
Graders and sorters, except agricultural	7 647	7 989	6 571	3 755	7 783	15 485	6 005	10 991	6 531	5 776	9 762	6 266	5 003	4 748	8 318	3 838
Other production inspectors, testers, samplers, and weighers	12 006	12 137	11 848	10 376	10 712	10 123	13 531	10 991	8 616	8 712	8 567	7 354	11 246	11 256	11 777	12 762
Transportation and material moving occupations																
Transportation occupations	11 763	12 513	8 845	7 998	9 386	9 276	10 007	12 835	8 130	8 387	7 278	6 519	7 017	6 762	8 530	6 724
Motor vehicle operators	10 884	10 384	14 063	10 005	6 354	4 946	13 070	9 005	7 386	7 334	7 145	12 093	6 949	6 487	8 521	6 595
Truck drivers	9 628	10 342	15 036	10 005	6 073	4 572	13 070	9 005	7 186	7 085	7 145	12 093	6 384	6 384	8 332	6 595
Driver-sales workers	10 729	10 719	12 305	10 005	8 202	6 701	13 070	—	7 347	7 267	7 102	12 580	9 888	9 892	10 140	7 860
Other motor vehicle operators	13 872	13 079	17 005	—	980	980	—	—	5 730	4 451	15 005	10 925	9 380	9 037	7 431	3 505
Rail and water transportation occupations	12 362	12 005	12 505	—	8 565	8 360	—	9 005	22 409	22 409	7 306	10 925	14 152	14 246	13 636	13 366
Material moving equipment operators	12 227	13 780	6 907	7 734	11 070	11 848	8 853	14 412	8 302	6 647	7 306	6 106	9 993	10 328	8 871	10 422
Supervisors, material moving equipment operators	19 316	19 316	—	—	17 634	17 634	—	24 825	14 028	11 588	—	6 106	13 071	13 853	8 557	—
Crane, hoist and winch operators	9 005	9 005	—	—	12 158	11 923	12 503	—	5 503	5 503	2 205	—	12 280	10 907	16 728	—
Excavating, grading, and dozer machine operators	20 755	22 005	19 505	—	2 850	2 850	—	—	8 082	8 082	—	—	6 650	6 769	5 203	—
Other material moving equipment operators	11 205	12 832	5 725	7 734	10 012	10 968	7 061	8 732	8 268	8 632	7 411	6 106	10 096	10 529	8 964	10 027
Handlers, equipment cleaners, helpers, and laborers																
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	10 351	10 569	10 393	8 504	7 531	7 656	7 959	4 883	6 474	6 635	6 311	5 568	7 857	7 704	8 485	6 451
Helpers, craft and production	11 950	11 794	12 574	11 599	6 907	7 652	6 240	—	13 029	14 693	12 005	—	16 024	15 627	17 658	—
Construction laborers	12 066	11 699	10 028	13 925	1 877	1 005	2 895	4 711	5 388	5 297	4 996	5 599	9 979	10 027	10 266	5 687
Freight, stock, and material handlers	10 025	11 250	10 028	7 700	6 396	7 855	2 080	6 485	7 557	9 045	7 660	7 467	9 341	10 225	10 661	10 489
Garage and service station attendants, and equipment cleaners	8 224	9 634	11 650	112	6 831	5 735	7 597	1 305	8 005	8 441	4 872	7 314	9 604	9 285	10 488	7 998
Hand packers and packagers	10 396	10 606	9 562	8 850	6 991	7 652	8 850	3 626	6 479	6 643	6 336	5 423	5 600	5 712	5 466	4 984
Laborers, except construction	10 112	10 125	10 145	9 400	8 047	7 788	8 800	6 218	6 215	6 372	6 106	5 515	7 596	7 711	7 338	7 061

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Railroads				Trucking service and warehousing				Other transportation				Communications			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed males 16 years and over	19 983	20 577	15 273	16 686	17 651	18 214	13 356	14 324	18 380	19 115	15 324	15 682	21 186	21 654	16 233	17 342
Managerial and professional specialty occupations	24 850	25 253	19 135	20 433	26 324	26 498	21 609	21 486	25 160	25 609	20 320	22 755	24 800	25 198	18 644	19 213
Executive, administrative, and managerial occupations	24 640	25 077	18 716	20 339	26 433	26 615	21 987	21 589	25 672	26 182	20 278	22 778	24 372	23 787	18 644	19 213
Officials and administrators, public administration	20 005	20 005	—	—	25 725	25 725	—	32 005	26 463	26 817	19 312	29 036	32 205	32 205	22 594	23 791
Financial managers	30 767	30 732	35 005	20 904	24 922	25 008	30 005	25 315	26 761	26 982	22 446	24 918	31 529	32 070	22 189	27 480
Managers, marketing, advertising, and public relations	30 983	30 978	—	30 005	26 095	26 167	15 487	20 520	27 148	27 883	19 281	21 407	31 952	32 139	25 946	26 968
Administrators, education and related fields	27 735	27 735	—	—	23 245	23 245	—	—	31 659	33 473	19 281	21 005	26 907	30 461	14 930	11 005
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	28 061	27 988	—	22 163	23 027	23 132	23 982	13 807	22 859	22 985	21 461	20 853	30 415	31 037	24 318	20 891
Managers and administrators, n.e.c.	24 849	25 301	18 788	20 827	27 297	27 477	21 583	22 482	28 010	28 010	20 364	24 267	31 270	31 606	24 460	24 271
Salaries	24 849	25 301	18 788	20 827	27 297	27 477	21 583	22 482	28 010	28 010	20 364	24 267	31 270	31 606	24 460	24 271
Self-employed	—	—	—	—	26 608	26 804	19 929	30 057	20 213	20 135	28 946	17 727	26 971	26 948	30 005	—
Management related occupations	21 834	22 194	17 861	18 354	20 224	20 198	24 837	18 040	21 837	22 275	19 463	17 845	24 755	25 358	16 860	21 427
Accountants and auditors	22 080	22 306	18 953	18 804	22 467	22 467	14 135	19 588	21 920	22 446	15 336	17 666	26 668	23 484	18 243	18 243
Personnel, training, and labor relations specialists	24 361	23 135	17 274	22 320	22 682	22 181	31 957	19 610	23 590	24 039	22 169	17 725	26 945	26 945	19 336	23 250
Buyers and purchasing agents	22 844	23 428	12 985	18 082	18 082	19 024	20 910	16 582	20 167	20 360	17 890	17 452	21 147	21 520	15 736	23 250
Inspectors and compliance officers	18 500	18 476	17 911	17 521	18 516	19 309	12 943	11 605	23 249	23 249	18 590	17 826	20 703	20 269	25 005	—
Other management related occupations	24 116	24 403	19 335	11 005	19 637	19 809	17 820	11 605	23 249	23 249	18 590	17 826	20 703	20 269	25 005	—
Professional specialty occupations	25 833	26 059	21 884	21 429	22 822	23 195	16 677	18 083	23 330	23 581	20 489	22 641	20 418	20 664	16 469	16 861
Engineers, architects, and surveyors	25 108	25 300	21 696	20 220	24 146	24 322	21 062	18 083	23 330	23 581	20 489	22 641	20 418	20 664	16 469	16 861
Architects	27 187	27 187	—	—	26 927	26 927	—	—	26 923	26 923	—	—	26 923	26 923	—	—
Engineers	25 189	25 386	21 696	20 793	24 118	24 288	21 062	18 083	23 330	23 581	20 489	22 641	20 418	20 664	16 469	16 861
Civil engineers	25 668	26 036	22 934	20 793	24 118	24 288	21 062	18 083	23 330	23 581	20 489	22 641	20 418	20 664	16 469	16 861
Electrical and electronic engineers	23 124	23 109	23 905	23 719	24 808	24 910	24 688	26 554	26 100	26 443	24 389	29 035	23 746	23 968	23 165	22 521
Industrial engineers	24 703	24 805	23 905	23 719	24 808	24 910	24 688	26 554	26 100	26 443	24 389	29 035	23 746	23 968	23 165	22 521
Mechanical engineers	23 506	24 805	16 572	30 675	24 386	24 291	20 597	28 755	24 022	24 533	24 022	21 787	24 533	23 871	21 712	18 886
Other engineers	23 162	23 397	19 904	22 365	22 689	23 140	20 005	28 755	24 022	24 533	24 022	21 787	24 533	23 871	21 712	18 886
Surveyors and mapping scientists	20 332	20 332	—	18 312	22 703	23 986	20 771	28 755	24 022	24 533	24 022	21 787	24 533	23 871	21 712	18 886
Computer systems analysts and scientists	23 282	23 594	19 338	20 976	22 098	22 270	22 005	21 455	24 133	24 133	20 309	25 087	24 742	24 666	22 730	22 314
Operations and systems researchers and analysts	23 888	23 553	18 205	23 945	21 943	21 138	30 005	—	23 434	23 071	26 074	15 777	25 730	26 220	18 508	24 066
Mathematical scientists	20 107	20 165	19 600	—	10 300	10 300	—	1 305	20 542	21 417	20 468	19 655	27 479	27 132	34 160	23 675
Natural scientists	23 502	23 502	—	—	18 496	20 033	1 555	1 305	25 051	25 154	12 805	—	22 558	22 969	16 805	9 684
Chemists, except biochemists	23 502	23 502	—	—	16 662	16 748	—	1 305	23 358	23 358	12 805	—	26 754	26 701	16 805	9 684
Other natural scientists	20 053	20 053	—	—	20 650	24 077	1 555	—	25 611	25 755	12 805	—	21 920	22 399	16 805	9 684
Health diagnosing occupations	28 672	31 487	16 005	—	23 256	26 668	—	—	31 889	31 889	—	—	48 736	48 736	—	—
Health assessment and treating occupations	22 005	22 005	—	—	14 741	11 776	17 707	—	12 461	12 443	13 180	12 703	22 174	22 174	—	—
Registered nurses	—	—	—	—	6 205	6 845	5 805	—	16 624	16 566	42 005	—	33 199	33 199	—	—
Other health assessment and treating occupations	—	—	—	—	17 741	13 009	23 308	—	12 255	12 344	8 813	12 703	18 672	18 672	—	—
Teachers, except postsecondary	22 005	22 005	—	—	19 179	19 179	—	—	18 529	18 529	20 777	14 389	22 110	22 270	23 855	23 548
Social scientists and urban planners	25 314	25 743	21 424	37 505	20 251	20 251	—	21 075	27 364	28 327	19 986	23 007	24 620	24 969	22 112	17 836
Social and recreation workers	34 073	34 073	—	—	14 723	14 173	16 005	—	21 418	21 418	21 984	36 672	23 546	23 546	18 696	16 934
Lawyers and judges	44 972	44 273	—	—	34 553	36 172	—	—	36 886	37 447	29 805	36 672	44 514	44 678	39 282	35 365
Writers, artists, entertainers, and athletes	22 239	22 543	18 198	20 538	18 547	19 383	10 779	25 005	19 941	20 441	17 003	16 713	17 095	17 309	13 445	13 445
Other professional specialty occupations	14 363	16 410	1 205	—	16 286	16 286	—	—	17 437	16 939	16 939	23 003	18 524	20 432	13 349	18 366
Technical, sales, and administrative support occupations	19 370	19 620	16 044	18 401	15 755	16 222	11 815	12 343	19 704	20 219	17 220	16 698	19 734	20 289	15 282	15 582
Technicians and related support occupations	20 005	20 124	15 689	16 116	16 248	16 413	11 298	12 575	33 507	34 119	20 116	23 049	19 798	19 899	18 210	17 786
Health technicians and technicians	22 224	22 224	—	—	11 441	11 441	—	—	9 717	9 642	10 420	8 802	21 562	21 562	—	—
Licensed practical nurses	34 005	34 005	—	—	12 531	12 531	—	—	18 053	17 550	21 825	—	—	—	—	—
Other health technicians and technicians	21 243	21 243	—	—	—	—	—	—	9 651	9 582	10 151	8 802	21 562	21 562	—	—
Engineering and science technicians	19 185	19 311	15 758	15 405	14 639	14 664	11 017	9 372	19 516	19 439	20 141	17 859	19 040	19 176	17 736	16 242
Electrical and electronic technicians	20 542	20 585	19 469	10 951	18 175	18 175	—	13 005	21 128	21 049	21 608	21 975	19 599	19 673	18 696	16 934
Industrial and mechanical engineering technicians	21 525	21 525	—	—	17 589	17 589	—	—	19 056	18 655	23 874	21 631	19 191	19 099	22 405	16 934
Drafting and surveying technicians	17 902	17 966	14 402	15 369	11 391	11 780	5 588	4 495	16 880	16 713	14 559	13 669	15 237	15 237	13 669	13 518
Other engineering and science technicians	19 517	19 957	13 274	17 814	13 957	13 376	16 445	18 823	17 888	17 965	18 655	10 454	20 319	20 497	21 108	15 641
Technicians, except health, engineering, and science	21 024	21 135	15 515	18 773	17 218	17 520	11 414	13 906	37 944	37 944	26 520	26 237	20 118	20 205	18 533	18 533
Airplane pilots and navigators	45 093	45 093	—	—	25 646	26 567	6 005	—	39 590	39 827	26 501	29 637	23 402	23 446	26 005	30 005
Air traffic controllers and broadcast equipment operators	22 153	22 153	—	—	15 534	15 534	—	—	22 322	22 396	21 688	19 564	18 051	18 235	16 516	13 743
Computer programmers	20 139	20 139	—	—	16 902	16 749	14 246	12 735	20 873	21 259	19 072	15 676	20 740	20 982	19 336	19 473
Other technicians, except health, engineering, and science	21 072	21 234	14 630	18 305	15 353	16 719	9 151	4 904	19 461	19 730	17 982	14 994	21 018	21 034	19 157	20 224

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Railroads				Trucking service and warehousing				Other transportation				Communications			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Technical, sales, and administrative support occupations—Con																
Sales occupations	22 191	22 365	16 759	22 160	19 655	19 836	15 208	15 220	16 720	17 058	14 076	15 002	21 580	21 951	17 210	17 613
Supervisors and proprietors, sales occupations	26 933	28 024	12 605	—	22 706	23 037	13 977	17 769	24 937	25 684	17 652	19 479	24 320	24 408	20 814	17 670
Salaried	26 933	28 024	12 605	—	22 211	23 037	13 916	14 021	25 649	26 525	17 652	19 479	24 320	24 408	20 814	17 670
Self-employed	—	—	—	—	25 055	25 056	15 010	23 635	18 417	18 571	—	18 255	4 299	—	—	4 610
Sales representatives, finance and business services	22 755	22 909	16 768	26 650	19 858	20 018	15 782	15 395	17 459	17 683	15 475	15 814	21 733	22 063	17 590	17 913
Sales representatives, commodities, except retail	26 525	26 525	—	—	27 618	27 618	—	—	20 047	20 047	—	5 582	22 938	22 938	—	—
Sales workers, retail and personal services	18 627	18 676	19 984	17 222	15 065	15 138	14 411	12 221	13 262	13 243	13 499	12 296	14 522	15 345	11 076	14 754
Cashiers	18 668	18 723	19 984	17 222	16 129	16 047	16 388	14 547	13 185	13 150	13 406	12 436	15 095	16 483	11 427	13 329
Other sales occupations, retail and personal services	18 123	18 123	—	—	14 574	14 756	8 324	10 065	14 200	14 227	16 552	9 168	14 392	15 142	10 750	15 145
Sales related occupations	23 832	23 832	—	—	21 407	21 407	—	—	12 920	18 602	15 554	—	21 920	21 920	—	—
Administrative support occupations, including clerical	19 150	19 404	16 028	18 424	14 698	15 129	11 638	12 011	17 999	18 190	17 268	16 478	19 273	20 056	14 037	14 559
Supervisors, administrative support occupations	22 325	22 370	21 499	20 277	18 798	19 046	15 875	14 505	21 677	21 892	20 772	20 491	25 274	25 544	20 912	22 510
Computer equipment operators	19 346	19 621	16 559	17 653	14 927	14 988	15 633	15 819	17 592	17 978	16 807	14 264	16 908	17 391	14 602	13 544
Secretaries, stenographers, and typists	18 429	18 826	12 630	16 050	13 606	14 709	9 459	4 259	15 682	15 824	16 154	13 101	11 734	12 265	9 767	9 082
Secretaries	19 156	19 769	11 999	12 850	14 845	16 420	3 502	1 845	17 059	16 975	17 882	15 148	14 163	14 527	15 854	10 190
Stenographers and typists	17 883	18 149	13 420	19 365	11 583	11 845	11 529	9 935	14 110	14 565	14 163	11 707	10 115	10 578	8 843	10 190
Receptionists	16 709	16 703	17 199	—	7 454	7 527	14 005	9 999	15 449	15 520	14 825	15 884	11 420	12 156	8 088	7 045
Other information clerks	19 395	19 708	16 067	19 529	15 680	15 583	14 963	13 462	17 880	18 191	15 638	16 084	16 119	16 728	13 398	11 523
File clerks	16 328	16 248	16 822	—	8 571	8 063	8 426	9 576	14 078	14 043	15 304	12 289	12 482	13 270	9 095	8 737
Other records processing occupations, except financial	18 256	18 714	15 550	18 741	12 450	12 974	10 269	10 329	17 442	18 247	13 997	15 496	14 785	15 034	13 103	13 607
Bookkeepers, accounting, and auditing clerks	19 324	18 900	16 759	18 709	13 804	13 933	6 358	15 708	14 793	15 089	14 361	11 909	17 193	18 354	11 860	12 026
Payroll and timekeeping clerks	17 716	18 920	17 460	19 433	13 361	13 423	11 467	12 323	19 660	20 136	19 381	16 903	13 690	19 313	14 838	17 905
Other financial records processing occupations	19 715	19 612	14 598	21 152	15 480	17 087	11 005	16 201	16 727	16 139	16 944	13 031	12 711	13 707	14 083	17 003
Telephone operators	17 714	17 624	13 820	17 393	15 892	16 411	20 005	15 870	16 127	16 320	17 766	13 036	12 714	13 778	10 226	9 393
Mail and message distributing occupations	19 383	20 336	14 842	17 393	11 892	11 668	10 396	12 673	17 761	17 923	17 766	13 979	12 809	13 278	11 378	9 354
Production coordinators and expeditors	19 850	20 336	14 842	20 143	16 137	16 022	11 891	15 091	19 300	19 537	18 746	17 816	15 219	16 553	12 407	10 814
Traffic, shipping, and receiving clerks	18 344	18 789	14 449	17 347	11 028	11 249	10 247	9 489	17 728	18 430	15 892	14 830	15 492	15 616	12 407	10 814
Stock and inventory clerks	17 198	17 447	15 339	17 546	11 213	11 649	9 318	9 515	17 098	17 441	15 892	14 830	15 492	15 616	12 407	10 814
Other material recording, scheduling, and distributing clerks	20 951	20 180	17 244	18 945	17 458	17 661	15 488	12 517	16 243	16 292	17 781	14 596	19 324	19 772	13 034	17 428
Adjusters and investigators	19 751	20 180	16 853	19 262	17 348	17 661	15 488	12 517	16 243	16 292	17 781	14 596	19 324	19 772	13 034	17 428
Docu-entry keyers	19 116	18 945	19 244	22 289	16 445	17 532	18 267	7 525	18 795	19 016	17 456	14 882	14 882	18 205	10 984	14 093
Other administrative support occupations	18 423	18 612	15 704	18 050	14 068	14 228	12 077	11 597	16 594	17 050	15 539	14 422	14 786	15 789	10 065	11 545
Service occupations	15 727	17 052	13 019	13 220	10 920	11 306	9 322	9 675	13 670	14 221	12 384	12 408	12 964	14 386	8 895	11 063
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	18 863	19 108	16 745	16 550	11 390	11 558	10 372	10 522	15 598	16 090	14 329	14 667	13 005	14 490	9 302	12 224
Guards	18 760	19 014	16 559	16 758	10 533	10 675	9 666	9 880	15 311	15 768	14 287	14 492	11 928	13 121	9 206	11 037
Other protective service occupations	20 241	20 354	19 252	14 380	19 501	19 480	20 590	24 205	17 654	17 914	15 310	18 011	24 847	25 912	18 005	19 193
Service occupations, except protective and household	13 492	14 526	12 430	11 941	10 724	11 181	9 150	9 458	13 351	13 874	12 106	12 162	12 953	14 361	8 770	10 850
Food preparation and service occupations	13 344	15 162	12 693	14 941	13 336	16 160	7 161	10 592	13 288	14 015	11 590	10 543	13 470	14 023	9 442	10 523
Health service occupations	19 676	23 451	13 805	—	13 124	14 459	9 414	5 503	9 754	9 729	10 203	10 456	22 205	22 205	8 710	10 466
Cleaning and building service occupations, except household	13 092	13 632	12 148	11 737	10 488	10 807	9 554	9 554	13 145	13 623	12 140	11 809	12 717	14 163	10 049	12 827
Personal service occupations	14 877	18 031	12 471	11 781	14 700	16 287	3 917	4 834	14 018	14 826	12 199	13 561	15 646	16 876	10 049	12 827
Farming, forestry, and fishing occupations	13 489	14 413	8 705	14 142	8 363	9 346	5 526	5 886	10 916	11 466	8 356	10 768	10 128	10 530	7 209	23 510
Precision production, craft, and repair occupations	18 495	18 791	15 572	17 418	16 991	17 285	13 929	14 390	19 066	19 348	17 028	17 416	20 153	20 377	17 478	18 455
Mechanics and repairers	18 246	18 594	15 174	17 650	16 311	16 537	13 762	13 762	18 004	19 059	16 827	17 413	20 037	20 377	17 468	18 352
Supervisors, mechanics and repairers	22 611	22 811	20 424	19 400	21 906	22 140	17 286	15 526	23 842	24 105	20 939	23 558	25 391	25 538	22 434	22 466
Automobile mechanics, including body	17 785	17 715	17 399	17 819	15 675	15 789	14 488	14 358	17 679	18 115	16 167	14 052	18 115	17 976	19 428	16 486
Industrial machinery repairers	17 631	17 802	15 050	16 617	16 759	16 645	16 350	19 007	18 361	18 705	16 767	18 268	18 432	18 758	13 638	15 326
Electronic repairers, communications and industrial equipment	21 393	21 642	18 086	19 450	16 456	17 116	2 945	15 005	20 837	20 813	20 445	16 543	13 591	13 747	11 535	10 961
Heating, air conditioning, and refrigeration mechanics	18 218	17 782	—	25 585	15 480	15 353	13 839	16 316	20 665	20 382	18 158	22 074	17 922	18 046	16 567	16 291
Other mechanics and repairers	17 515	17 870	14 698	16 693	16 250	16 508	13 332	14 328	18 652	18 842	16 757	17 747	20 260	20 478	17 677	18 890
Construction trades	18 541	18 834	15 367	17 309	13 595	13 956	11 025	10 565	17 913	18 088	17 067	15 489	20 193	20 560	16 001	18 941
Supervisors, construction occupations	23 482	23 290	28 296	23 789	20 419	20 824	7 507	9 507	23 559	23 552	20 554	18 519	23 995	24 072	21 940	24 005
Carpenters	16 076	16 227	14 975	16 159	10 585	10 857	7 507	9 507	23 559	23 552	20 554	18 519	23 995	24 072	21 940	24 005
Electricians	18 970	19 217	15 760	18 961	15 588	16 235	10 571	11 367	19 507	15 252	17 013	13 036	18 550	16 747	17 785	19 731
Painters, construction and maintenance	15 484	16 004	13 069	14 007	10 964	11 371	9 320	9 651	14 988	15 238	15 210	11 758	18 550	16 747	18 233	18 602
Plumbers, pipefitters, and steamfitters	18 225	18 405	16 116	17 306	16 318	16 388	11 080	20 823	17 159	17 227	15 701	16 630	16 039	18 176	9 232	—
Other construction trades	18 440	18 913	13 924	14 923	12 256	11 869	13 754	—	17 241	17 625	15 475	17 053	14 974	15 322	13 004	14 102

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Railroads				Trucking service and warehousing				Other transportation				Communications			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extrusive occupations	18 978	19 725	10 971	21 625	15 845	15 833	—	14 713	19 491	20 491	17 271	10 532	19 068	18 515	29 005	5 595
Precision production occupations	18 893	19 094	16 608	17 942	18 520	18 960	14 389	14 766	21 030	21 429	18 048	18 649	23 078	23 317	19 271	22 651
Supervisors, production occupations	21 982	22 241	16 932	19 232	19 016	14 430	18 848	15 555	21 782	22 171	18 897	19 158	24 291	24 426	20 065	24 061
Precision metalworking occupations	18 153	18 318	16 279	18 024	14 363	14 777	13 564	13 001	19 202	19 655	15 799	17 434	18 551	19 339	13 957	15 176
Tool and die makers	15 881	16 079	18 005	8 505	17 485	17 485	—	—	22 133	22 054	—	—	20 068	20 068	—	—
Machinists	18 075	18 275	15 728	17 936	14 417	15 104	12 431	13 001	19 996	19 996	15 797	18 092	17 679	18 438	13 349	14 438
Sheet metal workers	19 057	18 954	21 873	19 854	13 037	9 832	17 845	—	19 395	19 556	17 233	17 864	16 998	16 998	—	—
Other precision metal workers	17 899	18 027	17 744	15 622	13 850	13 284	9 695	—	15 347	15 856	14 959	11 590	16 909	20 930	15 818	16 505
Precision textile, apparel, and furnishings machine workers	17 251	17 463	15 295	—	24 293	28 167	8 135	2 305	13 004	14 119	9 713	8 876	28 782	28 782	—	—
Precision food production occupations	12 162	12 747	9 605	—	11 775	12 133	10 293	8 973	13 442	14 760	7 281	10 172	19 287	19 287	—	—
Precision inspectors, testers, and related workers	18 903	19 043	17 512	17 536	15 089	15 870	8 998	7 024	22 223	22 639	18 881	17 837	21 370	21 304	21 418	28 060
Plant and system operators	19 973	20 851	14 962	16 280	18 424	19 181	8 469	7 024	21 263	21 311	19 918	21 411	23 072	23 081	20 898	18 483
Other precision production occupations	16 261	15 542	22 683	18 805	16 579	16 490	—	10 405	15 483	15 254	40 005	15 345	14 864	16 099	8 943	—
Operators, fabricators, and laborers	19 994	20 732	14 975	15 897	17 138	17 697	13 329	14 298	14 294	14 644	13 593	13 116	14 781	15 580	11 213	12 313
Machinists, assemblers, and inspectors	16 788	17 196	14 342	16 012	13 852	14 654	11 030	10 592	15 836	16 507	13 549	12 812	15 412	16 202	12 537	12 854
Mining operators and tenders, except precision	16 055	16 540	13 084	15 428	12 505	13 806	9 317	9 485	14 880	15 472	13 766	11 454	14 571	15 363	11 221	14 161
Metalworking and plastic working machine operators	15 840	16 131	12 820	15 681	13 407	15 495	10 905	9 485	17 937	18 471	14 412	17 654	15 319	16 494	8 905	13 216
Fabricating machine operators, n.e.c.	13 436	13 492	13 005	—	13 456	17 354	12 898	10 005	21 284	26 695	18 471	14 605	11 917	9 560	18 105	—
Metal and plastic processing and woodworking machine operators	14 791	14 791	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Printing machine operators	16 106	17 204	9 353	11 880	9 588	10 309	7 270	17 205	15 499	17 529	8 454	18 955	15 258	16 676	14 763	12 365
Textile machine operators	15 434	16 928	13 005	—	12 937	12 775	11 723	17 454	13 857	13 301	17 649	9 771	12 694	12 712	12 561	21 325
Textile sewing machine operators	35 356	35 356	—	—	5 091	13 614	4 390	4 003	14 314	13 084	15 194	—	15 567	15 567	—	—
Laundry and dry cleaning machine operators	22 136	22 174	—	22 005	8 508	8 508	—	—	14 770	15 362	—	10 005	—	—	—	—
Packaging and filling machine operators	29 005	—	29 005	—	16 244	16 223	14 545	18 687	13 992	14 003	9 349	9 005	20 676	20 676	—	—
Furnace, kiln, and oven operators, except food	18 597	18 880	17 499	17 225	11 915	13 100	6 340	29 505	13 755	13 757	10 614	10 614	21 696	21 548	24 310	16 972
Other specified machine operators	15 970	16 198	12 710	17 012	12 692	14 091	7 076	10 951	15 120	16 063	15 707	12 021	14 209	15 161	8 770	13 485
Miscellaneous and not specified machine operators	15 998	16 536	13 599	15 251	12 409	13 727	10 164	7 987	14 675	15 236	13 623	10 873	14 756	15 652	11 138	—
Fabricators, assemblers, and hand working occupations	15 972	16 312	14 107	15 474	13 451	13 484	14 890	10 307	15 733	16 519	11 871	14 650	13 723	14 467	13 319	11 138
Welders and cutters	16 085	16 354	14 610	15 306	14 483	13 252	19 502	12 771	16 503	17 493	11 000	15 353	15 443	14 478	18 438	17 005
Solders and brazers	14 005	19 005	10 005	—	13 855	14 895	—	9 605	12 005	12 005	—	12 808	15 004	15 211	12 255	18 005
Assemblers	15 256	16 309	12 232	20 653	11 535	11 689	11 925	7 647	13 720	13 995	12 894	12 808	13 315	14 354	12 713	10 498
Hand working occupations	14 816	15 384	13 040	12 033	10 679	12 801	4 892	5 503	14 502	14 437	14 766	15 442	14 048	14 048	—	—
Production inspectors, testers, samplers, and weighers	19 363	19 570	17 008	19 437	16 536	17 133	12 999	13 776	18 713	19 022	16 543	14 583	18 239	18 527	15 576	13 107
Graders and sorters, except agricultural	15 503	15 503	—	2 105	9 812	9 318	12 581	9 257	13 699	12 501	14 391	17 306	13 155	16 627	6 905	—
Other production inspectors, testers, samplers, and weighers	19 382	19 592	17 008	19 524	18 521	19 314	13 149	16 589	19 011	19 293	16 863	14 394	18 353	18 557	16 670	13 107
Transportation and material moving occupations	22 216	22 629	17 657	18 739	18 231	18 709	14 476	15 820	13 868	14 148	13 365	12 568	15 839	16 655	12 398	12 961
Transportation occupations	22 399	22 807	17 753	19 006	18 367	18 829	14 628	16 087	13 543	13 777	13 189	12 152	16 176	17 186	12 136	14 313
Motor vehicle operators	16 779	17 226	15 321	14 599	18 366	18 828	14 628	16 086	12 440	12 341	12 942	11 690	14 667	15 490	11 988	14 533
Truck drivers	16 805	17 207	15 519	14 589	18 339	18 800	14 601	16 100	15 821	16 121	15 128	13 750	14 383	15 377	11 068	11 888
Driver-sales workers	16 485	16 706	14 477	—	17 285	17 599	14 436	14 322	15 816	13 858	8 169	8 849	9 928	8 969	16 005	11 005
Other motor vehicle operators	16 595	17 564	14 033	14 710	20 693	20 693	16 243	15 751	18 586	19 800	12 710	11 454	16 872	17 029	17 145	24 568
Rail and water transportation occupations	22 632	22 999	18 018	19 881	19 049	19 509	14 353	16 909	18 586	19 800	15 847	15 178	21 217	22 000	13 542	11 338
Material moving equipment operators	19 015	19 306	16 489	17 687	13 844	14 388	11 606	11 367	18 586	20 331	15 614	17 980	14 816	15 110	13 329	9 783
Supervisors, material moving equipment operators	21 664	21 712	20 155	19 272	15 279	16 078	10 957	11 051	25 050	26 793	16 489	26 407	21 826	22 516	16 943	—
Crane, hoist and winch operators	18 375	18 447	18 734	15 724	17 845	18 186	13 589	19 220	21 539	22 182	19 143	22 091	13 818	17 476	313	—
Excavating, grading, and dozer machine operators	16 104	16 151	16 071	20 276	12 007	22 210	17 636	5 168	16 067	16 266	13 064	15 502	12 033	12 174	11 411	—
Other material moving equipment operators	16 462	17 141	12 745	15 276	13 401	13 887	11 461	11 348	17 004	17 980	15 204	15 994	15 008	15 102	14 442	9 783
Handlers, equipment cleaners, helpers, and laborers	13 692	14 401	11 586	13 200	11 588	12 040	9 667	9 977	15 511	16 144	14 294	14 697	13 350	14 181	8 637	11 502
Supervisors, handlers, equipment cleaners, and laborers	25 483	25 483	—	—	15 555	16 610	11 853	—	22 059	22 410	20 199	20 874	30 812	30 812	—	—
n.e.c.	13 695	13 769	13 775	12 206	9 992	9 949	11 094	10 113	11 545	11 594	11 966	8 743	13 158	13 158	14 203	9 562
Helpers, craft and production	14 038	14 754	10 952	13 535	11 782	11 851	12 822	4 004	14 728	14 728	12 765	9 486	12 931	13 215	11 570	12 570
Construction laborers	14 275	16 088	9 165	13 486	11 879	12 355	9 647	10 067	16 761	17 504	15 244	16 701	18 208	19 716	9 861	12 199
Freight, stock, and material handlers	13 913	13 913	—	—	11 018	10 961	11 897	10 045	11 376	11 475	11 213	10 164	9 894	11 244	4 274	13 615
Garage and service station occupations, and equipment cleaners	13 070	12 876	17 505	12 887	9 743	10 373	403	8 376	11 381	12 266	8 749	8 092	11 320	12 517	8 167	9 298
Hand packers and packagers	13 199	12 876	17 505	13 231	11 017	11 369	9 544	10 316	12 321	12 772	11 506	11 655	11 514	12 051	7 925	11 844
Laborers, except construction	13 636	14 314	11 674	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Railroads				Trucking service and warehousing				Other transportation				Communications			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over	14 768	15 090	12 815	13 220	9 143	9 216	8 474	7 632	11 046	10 776	12 789	10 346	12 916	13 030	12 472	12 159
Managerial and professional specialty occupations	17 820	18 048	15 859	14 355	13 073	13 091	12 367	9 907	14 195	14 085	16 769	13 072	16 904	17 026	16 484	15 487
Executive, administrative, and managerial occupations	18 000	18 284	15 384	16 141	13 001	13 002	12 819	9 846	14 142	14 073	16 048	12 707	18 727	18 929	17 733	17 257
Officials and administrators, public administration	—	—	—	—	—	—	—	—	11 504	11 322	14 840	15 095	10 655	10 655	—	—
Financial managers	15 431	17 258	11 026	—	14 075	13 694	17 786	13 005	15 194	15 007	19 485	12 888	20 566	21 079	17 617	15 179
Managers, marketing, advertising, and public relations	16 224	16 224	—	—	13 540	13 540	—	5 002	16 009	16 011	25 370	12 321	19 970	20 101	19 121	16 340
Administrators, education and related fields	—	—	—	—	5 770	5 770	—	—	10 517	10 504	9 265	—	11 567	11 912	13 144	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	16 932	16 100	14 955	—	13 611	13 227	16 176	11 821	14 015	13 914	20 308	10 798	22 132	22 055	23 400	22 738
Managers and administrators, n.e.c.	18 564	18 824	15 350	19 395	13 249	13 289	12 133	10 416	13 988	13 902	16 535	12 653	18 848	19 026	17 895	17 568
Salaries	18 564	18 824	15 350	19 395	13 457	13 500	12 120	10 533	14 263	14 263	16 585	12 890	18 878	19 061	17 895	17 568
Self-employed	—	—	—	—	11 598	11 559	12 505	5 338	9 764	9 818	14 432	10 325	12 435	12 435	—	—
Management related occupations	17 620	17 918	16 334	19 005	12 135	12 090	11 970	8 194	14 350	14 382	14 489	13 472	17 521	17 719	16 559	16 357
Accountants and auditors	17 105	17 361	16 109	19 005	11 730	11 764	11 628	7 698	13 057	13 128	12 720	12 890	14 770	14 900	13 939	12 223
Personnel, training, and labor relations specialists	19 056	18 510	26 465	—	15 831	15 190	22 434	—	17 033	16 974	17 273	14 731	19 456	19 607	18 584	19 670
Buyers and purchasing agents	20 039	20 352	10 655	—	10 296	9 600	14 755	14 005	15 045	14 854	15 378	13 123	13 979	13 890	13 203	25 005
Inspectors and compliance officers	15 977	15 763	—	—	11 763	11 763	—	—	15 040	14 994	15 291	12 022	14 802	14 347	17 005	17 005
Other management related occupations	16 533	18 471	3 305	—	12 609	12 920	9 376	—	14 493	14 528	13 143	18 608	18 599	19 173	16 252	21 113
Professional specialty occupations	17 145	17 188	17 408	10 783	14 388	14 877	9 059	12 305	14 593	14 183	19 635	16 445	14 450	14 454	14 740	13 507
Engineers, architects, and surveyors	16 995	16 499	28 005	—	15 158	16 285	10 326	—	15 898	15 633	19 716	—	18 120	18 320	16 656	19 162
Architects	23 805	23 805	—	—	15 005	15 005	—	—	15 505	15 505	—	—	16 945	20 180	4 005	4 005
Engineers	16 591	15 984	28 005	—	15 160	16 303	10 326	—	15 950	15 637	20 591	—	18 128	18 317	16 738	19 432
Civil engineers	16 815	16 815	—	—	22 353	22 353	—	—	20 867	19 967	23 005	—	17 053	16 474	19 005	—
Electrical and electronic engineers	18 915	18 915	—	—	18 914	24 205	—	—	18 914	24 205	—	—	18 200	18 429	16 448	—
Industrial engineers	12 355	12 355	—	—	14 165	14 757	11 822	—	15 978	15 188	20 288	—	12 058	12 740	—	11 281
Mechanical engineers	18 728	15 636	28 005	—	14 545	14 545	—	—	18 438	18 253	19 705	—	18 838	18 838	—	19 853
Other engineers	16 501	16 501	—	—	11 773	20 425	6 005	—	13 082	13 364	16 005	—	18 508	18 263	19 943	14 905
Surveyors and mapping scientists	16 914	16 914	—	—	—	—	—	—	13 005	—	13 005	—	14 005	14 005	—	—
Computer systems analysts and scientists	18 939	19 144	17 128	—	20 280	20 280	—	—	19 708	19 939	18 723	9 151	19 962	19 984	19 606	15 412
Operations and systems researchers and analysts	15 482	15 546	14 005	—	18 822	14 100	—	—	18 944	18 420	21 119	16 291	21 233	21 885	18 040	25 595
Mathematical scientists	17 038	17 038	—	12 005	9 825	10 708	8 213	—	9 548	9 356	7 956	12 780	13 876	13 206	17 179	20 115
Natural scientists	19 003	19 003	1 005	—	9 885	9 885	—	—	14 358	13 358	17 256	—	13 899	13 886	—	13 256
Chemists, except biochemists	19 003	19 003	—	—	9 885	—	—	—	19 705	19 377	22 552	—	12 365	12 811	—	14 495
Other natural scientists	1 005	—	1 005	—	—	—	—	—	9 613	8 677	13 730	—	12 365	12 811	—	10 005
Health diagnosing occupations	—	—	—	—	—	—	—	—	23 488	23 488	—	—	31 249	31 249	—	—
Health assessment and treating occupations	15 325	15 325	—	—	16 398	17 865	2 605	—	11 655	11 147	16 442	15 526	15 402	15 289	18 305	3 505
Registered nurses	15 325	15 325	—	—	16 398	17 865	2 605	—	13 885	13 343	17 559	15 798	16 023	15 747	18 305	3 505
Other health assessment and treating occupations	—	—	—	—	—	—	—	—	9 276	9 189	8 130	14 505	4 628	4 628	—	—
Teachers, except postsecondary	24 849	25 595	24 645	—	11 319	11 319	—	—	13 898	13 206	17 032	20 885	15 103	14 778	17 686	—
Social scientists and urban planners	18 225	18 225	—	—	12 801	12 801	—	—	15 784	15 603	18 030	—	16 492	16 779	15 752	16 200
Social and recreation workers	27 101	27 101	—	—	6 599	6 599	—	—	8 671	9 663	3 150	8 172	15 392	15 499	15 020	18 588
Lawyers and judges	20 849	20 849	—	—	27 303	27 303	—	—	21 695	21 966	19 605	33 862	25 850	27 593	18 077	4 005
Writers, artists, entertainers, and athletes	11 592	11 452	—	—	11 747	11 850	—	12 305	12 211	12 660	11 648	15 006	12 140	12 114	12 883	13 292
Other professional specialty occupations	11 337	11 923	—	10 005	12 606	12 606	—	—	13 217	12 721	18 486	17 505	12 379	11 650	14 297	13 496
Technical, sales, and administrative support occupations	14 755	14 942	13 425	13 914	8 919	8 911	9 148	7 986	11 385	10 865	13 962	10 796	12 052	12 108	11 909	11 524
Technicians and related support occupations	15 728	16 484	14 365	—	10 917	12 154	9 919	11 446	11 144	10 868	12 116	11 942	14 628	15 482	14 939	15 385
Health technologists and technicians	20 755	20 755	—	—	5 360	5 360	—	—	6 276	5 098	9 552	8 046	16 870	15 934	—	13 203
Health technicians	20 005	20 005	—	—	—	—	—	—	4 943	5 142	1 705	8 405	16 367	15 367	—	—
Other health technologists and technicians	21 005	21 005	—	—	5 360	5 360	—	—	6 349	6 150	10 202	8 031	16 001	15 763	—	13 203
Engineering and science technicians	12 685	15 130	8 955	—	11 115	12 432	5 591	15 195	13 854	13 452	14 675	15 015	13 784	13 730	13 968	13 944
Electrical and electronic technicians	13 624	21 228	—	—	6 900	9 805	5 862	—	13 085	13 388	14 505	19 185	15 242	15 456	13 175	12 699
Industrial and mechanical engineering technicians	16 785	16 785	—	—	6 938	6 938	—	—	8 984	8 984	—	—	15 119	13 579	15 005	26 605
Drafting and surveying technicians	11 617	13 769	8 955	—	13 100	14 231	5 275	15 195	16 653	11 490	6 816	9 395	12 875	12 708	13 997	13 292
Other engineering and science technicians	13 375	13 375	—	—	13 100	14 231	5 275	—	16 435	15 716	18 192	20 217	15 259	15 427	14 292	15 105
Technicians, except health, engineering, and science	16 489	16 682	19 516	—	12 359	12 393	12 366	8 947	14 176	14 421	11 546	12 013	15 161	15 177	15 439	16 821
Airplane pilots and navigators	—	—	—	—	—	—	—	—	16 582	16 446	6 031	12 468	—	—	—	—
Air traffic controllers and broadcast equipment operators	18 275	18 275	—	—	12 067	12 067	—	—	8 371	9 379	3 534	12 668	10 053	10 121	10 659	15 984
Computer programmers	16 432	16 812	—	—	12 418	12 189	—	12 823	15 553	15 713	13 935	12 879	16 368	15 518	14 837	14 837
Other technicians, except health, engineering, and science	16 229	15 875	21 305	—	12 260	12 973	9 723	4 365	13 275	12 915	16 312	7 888	16 578	16 419	17 285	18 333

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

United States									
Employed females 16 years and over—Con.									
Technical, sales, and administrative support occupations—Con.									
Sales occupations									
Supervisors and proprietors, sales occupations	14 360	15 061	11 472	—	10 752	10 835	9 570	8 110	8 389
Self-employed	12 005	12 005	—	—	9 957	10 342	5 150	—	14 389
Sales representatives, finance and business services	12 005	12 005	—	—	9 945	10 501	5 150	—	16 557
Sales representatives, commodities, except retail	15 344	16 038	12 733	—	10 121	10 299	6 545	5 446	7 965
Sales workers, retail and personal services	13 262	14 018	10 274	—	11 379	11 387	10 810	10 869	7 598
Cashiers	13 242	14 255	8 314	—	12 508	12 521	12 460	10 669	10 554
Other sales occupations, retail and personal services	13 386	12 057	15 441	—	5 358	5 450	4 471	—	10 913
Sales related occupations	—	—	—	—	—	—	—	—	6 782
Administrative support occupations, including clerical	14 745	14 916	13 457	13 914	8 834	8 821	9 124	7 956	11 166
Supervisors, administrative support occupations	18 441	18 524	15 978	26 534	12 749	12 607	14 220	10 055	15 252
Computer equipment operators	15 033	15 126	14 806	10 195	10 195	10 006	11 757	14 544	12 791
Secretaries, stenographers, and typists	14 460	14 569	13 425	12 908	8 470	8 473	8 324	7 964	9 136
Secretaries	14 748	14 902	13 032	12 487	8 561	8 570	8 324	8 222	9 097
Stenographers and typists	13 970	13 995	13 991	12 096	7 898	7 822	9 577	6 835	10 139
Receptionists	9 978	9 857	10 757	—	7 062	7 212	6 687	4 640	7 794
Other information clerks	13 786	14 113	12 531	11 332	7 302	7 170	7 928	12 812	11 113
File clerks	14 821	15 778	9 775	9 325	6 272	6 494	4 553	4 200	7 794
Other records processing occupations, except financial	14 296	14 615	13 009	9 238	8 486	8 263	7 529	5 370	10 078
Bookkeepers, accounting, and auditing clerks	15 219	15 434	14 196	8 556	8 279	8 268	8 786	9 092	9 128
Payroll and timekeeping clerks	16 356	16 606	14 705	17 720	10 727	10 718	9 357	11 219	13 412
Other financial records processing occupations	16 023	16 113	14 743	17 037	9 220	9 256	8 637	8 382	10 321
Telephone operators	13 718	13 664	14 399	18 005	9 784	10 036	9 183	8 084	8 446
Mail and message distributing occupations	14 205	14 725	9 800	20 005	7 967	7 404	10 863	5 710	12 339
Production coordinators and expeditors	16 093	16 199	14 629	20 405	10 177	10 010	11 601	8 885	11 894
Traffic, shipping, and receiving clerks	15 185	15 371	14 145	14 231	8 307	8 421	7 954	7 483	12 890
Stock and inventory clerks	13 638	13 573	13 899	14 231	7 537	7 744	6 283	5 242	11 335
Other material recording, scheduling, and distributing clerks	15 458	15 477	15 059	21 160	9 096	9 218	7 727	9 459	12 796
Adjusters and investigators	14 906	15 399	14 093	10 118	10 946	10 948	11 123	9 425	12 679
Data-entry keyers	14 014	13 867	14 205	14 014	9 819	9 653	10 699	7 718	11 224
Other administrative support occupations	14 597	14 814	12 798	14 100	8 997	8 954	9 851	7 871	9 919
Service occupations	10 291	10 595	10 210	7 440	5 511	5 559	5 135	4 271	11 956
Private household occupations	—	—	—	—	—	—	—	—	—
Protective service occupations	14 557	15 663	11 537	17 155	6 707	6 790	10 975	1 265	8 288
Guards	14 961	16 364	11 537	17 155	6 716	6 802	10 975	1 265	8 140
Other protective service occupations	9 733	9 733	—	—	6 245	6 245	—	—	13 872
Service occupations, except protective and household	9 718	9 548	10 110	6 888	5 348	5 328	4 969	4 719	12 077
Food preparation and service occupations	9 054	9 453	10 066	7 188	4 183	5 121	2 901	6 272	8 202
Health service occupations	479	482	—	479	17 292	5 935	5 150	6 036	6 949
Cleaning and building service occupations, except household	9 758	9 318	9 998	9 128	5 562	5 150	6 126	4 189	7 211
Personal service occupations	10 886	10 815	11 180	10 688	5 503	6 264	2 838	2 925	13 096
Farming, forestry, and fishing occupations	—	—	—	—	10 702	14 329	6 760	—	9 317
Precision production, craft, and repair occupations	15 229	15 210	15 193	19 829	10 741	10 687	11 869	10 146	12 951
Mechanics and repairers	16 130	15 798	17 404	20 518	14 067	14 294	12 713	8 976	12 035
Supervisors, mechanics and repairers	21 888	22 402	—	33 905	9 905	9 905	—	—	13 786
Automobile mechanics, including body	20 005	20 005	—	—	3 005	3 005	—	—	12 585
Industrial machinery repairers	—	—	—	—	—	—	—	—	16 740
Electronic repairers, communications and industrial equipment	14 007	14 007	—	—	9 024	10 835	6 005	—	15 385
Heating, air conditioning, and refrigeration mechanics	—	—	—	—	13 934	13 934	—	—	16 263
Other mechanics and repairers	15 283	14 541	17 404	15 883	14 719	14 921	14 200	8 755	10 818
Construction trades	13 614	13 812	12 206	—	9 427	9 687	6 005	—	11 439
Supervisors, construction occupations	13 725	17 725	—	—	21 005	21 005	—	—	13 260
Carpenters	13 296	16 501	11 694	—	7 959	7 959	—	—	14 225
Electricians	13 925	13 990	13 229	—	21 245	21 245	—	—	17 487
Painters, construction and maintenance	7 723	7 723	—	—	7 561	7 561	—	—	10 594
Plumbers, pipefitters, and steamfitters	14 448	14 448	—	—	—	—	—	—	8 883
Other construction trades	14 881	14 881	—	—	6 961	7 166	6 005	—	13 505
Persons of Spanish origin may be of any race.	—	—	—	—	—	—	—	—	—

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Railroads				Trucking service and warehousing				Other transportation				Communications			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Precision production, craft, and repair occupations—Con.																
Extraction occupations	14 911	15 607	10 051	—	8 005	8 005	—	5 005	1 565	13 777	—	—	6 014	7 805	1 535	—
Precision production occupations	15 544	15 634	10 051	15 005	10 264	10 162	11 844	10 412	13 777	13 724	14 020	11 173	16 691	16 962	16 499	15 995
Supervisors, production occupations	15 544	15 634	10 051	—	12 650	12 756	12 179	10 053	15 007	14 929	15 450	12 048	18 632	19 032	17 605	17 074
Precision metalworking occupations	15 544	15 894	20 555	—	5 167	5 167	—	—	15 250	15 240	15 305	—	11 956	12 514	9 458	—
Tool and die makers	18 005	17 740	20 555	—	5 005	5 005	—	—	14 517	14 112	15 305	—	19 790	19 790	9 005	—
Machinists	18 005	17 740	20 555	—	2 005	2 005	—	—	16 872	16 872	—	—	8 979	8 979	9 005	—
Sheet metal workers	18 005	18 005	—	—	2 005	2 005	—	—	15 011	15 011	—	—	—	—	—	—
Other precision metal workers	18 005	18 005	—	—	4 333	3 289	5 659	—	10 744	8 415	13 891	11 005	12 012	12 012	9 618	—
Precision textile, apparel, and furnishings machine workers	16 369	15 005	—	—	5 186	5 065	11 669	—	9 465	9 465	—	—	8 330	8 330	—	—
Precision food production occupations	8 255	8 255	—	—	23 721	23 721	—	—	11 855	11 855	—	—	13 857	13 857	16 081	—
Precision inspectors, testers, and related workers	15 158	22 575	1 005	15 005	23 438	23 438	—	—	9 359	9 359	9 910	2 005	14 141	14 141	—	11 477
Plant and system operators	—	—	—	—	11 617	11 617	—	—	8 834	8 834	8 005	8 574	8 243	7 243	8 808	17 048
Other precision production occupations	4 725	4 725	—	—	8 312	8 312	—	20 200	9 051	8 834	8 005	—	8 243	7 243	8 808	12 426
Operators, fabricators, and laborers	13 709	14 403	10 793	11 125	8 312	8 368	7 095	6 397	6 208	5 524	8 974	6 357	11 228	11 390	10 718	11 293
Machine operators, assemblers, and inspectors	12 600	13 697	9 577	13 272	6 090	6 331	5 536	6 635	10 142	9 495	8 974	6 357	11 102	11 248	10 822	10 769
Machine operators and tenders, except precision	11 924	13 033	9 086	14 864	6 001	6 511	5 040	6 250	10 752	10 014	12 422	7 959	11 649	11 957	10 835	11 463
Metalworking and plastic working machine operators	12 641	10 860	—	16 005	6 110	6 110	—	2 135	6 700	5 130	10 121	1 005	13 155	13 155	—	—
Fabricating machine operators, n.e.c.	—	—	—	—	7 595	10 697	—	3 115	8 489	8 489	—	—	11 843	13 498	10 005	—
Metal and plastic processing and woodworking machine operators	7 305	7 305	—	—	7 478	7 478	—	—	8 194	8 194	—	4 661	13 278	13 621	—	—
Printing machine operators	16 704	16 704	—	—	5 793	5 769	6 005	4 175	9 919	8 698	14 946	—	11 215	10 656	14 416	8 477
Textile machine operators	—	—	—	—	8 781	6 505	—	839	—	—	—	—	7 745	10 798	5 201	—
Textile sewing machine operators	16 030	—	16 030	—	588	—	—	—	13 100	9 505	14 350	—	8 366	8 366	—	6 765
Laundry and dry cleaning machine operators	5 392	—	5 392	—	6 990	6 990	—	—	6 532	6 532	—	—	11 695	11 460	11 763	—
Packaging and filling machine operators	15 718	15 718	—	—	4 086	4 977	—	7 805	6 491	4 330	8 017	—	9 613	8 601	—	—
Furnace, kiln, and oven operators, except food	6 686	7 279	3 365	—	915	915	—	—	16 070	16 070	—	—	12 370	12 333	12 810	—
Other specified machine operators	12 343	13 966	8 845	14 131	5 636	6 480	3 955	2 700	8 383	7 025	11 151	7 930	12 370	12 333	12 810	9 429
Miscellaneous and not specified machine operators	—	—	—	—	6 227	6 758	5 207	8 436	11 358	10 934	12 496	8 421	11 643	12 083	10 521	12 145
Fabricators, assemblers, and hand working occupations	12 613	13 567	10 429	9 943	6 927	6 372	7 482	18 112	9 255	9 603	9 350	7 387	9 671	9 810	9 417	9 386
Welders and cutters	13 160	15 119	10 273	9 776	11 181	11 783	3 290	18 475	14 486	15 893	12 005	7 387	9 671	9 810	9 417	9 386
Assemblers	13 016	13 191	11 965	10 235	6 341	5 705	7 971	6 886	10 784	9 653	12 005	7 387	9 671	9 810	9 417	9 386
Hand working occupations	9 258	9 258	—	—	7 852	7 593	8 810	4 505	8 131	9 474	12 005	7 387	9 671	9 810	9 417	9 386
Production inspectors, testers, samplers, and weighers	14 690	15 347	8 845	—	5 892	7 593	5 446	19 176	7 909	9 474	12 005	7 387	9 671	9 810	9 417	9 386
Graders and sorters, except agricultural	16 281	16 281	—	—	5 892	6 480	5 198	3 796	7 909	9 474	12 005	7 387	9 671	9 810	9 417	9 386
Other production inspectors, testers, samplers, and weighers	14 492	15 216	8 845	—	4 287	4 288	—	—	8 942	5 724	18 394	2 005	11 717	10 900	16 005	16 005
Transportation and material moving occupations	15 409	15 605	15 378	11 979	9 976	10 456	6 299	17 672	7 391	6 969	8 673	—	12 146	11 970	12 922	12 194
Transportation occupations	16 429	16 477	15 861	12 645	10 039	10 047	9 595	7 895	5 658	5 140	8 129	6 107	12 418	12 459	12 180	13 376
Motor vehicle operators	10 194	9 493	14 495	14 495	10 043	10 081	9 927	7 798	5 633	5 116	8 115	6 106	11 387	11 447	11 144	12 385
Truck drivers	11 555	10 604	14 495	—	10 230	10 243	10 380	7 881	5 552	5 042	8 038	5 837	11 480	11 592	10 989	12 385
Other motor vehicle operators	13 755	13 755	—	—	10 053	10 248	10 380	7 881	7 092	4 778	4 778	3 505	11 412	11 702	10 005	10 668
Other material moving occupations	7 634	7 634	—	—	10 053	10 248	10 380	7 881	7 092	4 778	4 778	3 505	11 412	11 702	10 005	10 668
Rail and water transportation occupations	16 877	16 963	16 004	12 645	4 000	4 000	—	6 646	9 911	9 286	11 700	13 631	10 560	9 706	18 005	19 005
Material moving equipment operators	9 112	9 325	1 429	—	8 379	9 034	6 716	—	9 733	9 549	10 193	6 263	10 762	10 396	11 874	14 538
Supervisors, material moving equipment operators	18 051	18 051	—	—	10 293	10 673	2 505	9 057	11 208	11 208	10 193	6 263	15 992	16 209	15 709	14 538
Crane, hoist and winch operators	16 045	16 045	—	—	15 672	15 672	—	—	10 820	7 458	—	—	22 242	22 242	25 005	—
Excavating, grading, and dozer machine operators	15 566	15 574	1 429	—	8 935	8 935	—	—	17 878	17 878	—	—	16 838	13 697	25 005	—
Other material moving equipment operators	15 961	15 961	—	—	8 184	8 794	6 759	9 057	8 857	8 090	11 274	6 263	15 045	15 308	14 452	14 538
Handlers, equipment cleaners, helpers, and laborers	10 465	11 215	8 790	10 435	6 058	6 226	5 530	5 178	9 519	8 556	11 495	6 731	11 115	11 339	9 875	12 186
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	—	—	—	—	12 492	12 492	—	—	15 228	14 076	17 658	—	20 171	20 171	—	—
Helpers, craft and production	9 367	10 187	5 932	12 467	10 741	10 741	—	8 205	6 076	6 553	4 952	—	12 783	12 278	14 070	—
Construction laborers	3 769	4 188	—	7 205	10 741	15 037	—	—	8 194	3 580	16 105	—	10 945	10 395	—	15 415
Freight, stock, and material handlers	13 723	12 975	18 005	—	6 271	6 574	4 500	4 922	11 757	10 710	12 858	8 994	12 571	13 083	9 334	9 700
Garage and service station occupations, and equipment cleaners	11 945	15 344	6 635	13 645	6 117	5 379	10 974	9 505	9 812	9 280	11 117	7 239	11 426	11 915	9 552	14 135
Hand packers and packagers	8 272	4 005	12 005	—	5 203	5 314	4 874	4 694	6 554	6 993	6 420	5 317	8 941	8 599	10 940	14 135
Laborers, except construction	10 347	11 044	8 842	10 134	6 684	6 772	6 669	5 708	6 246	5 532	8 617	7 178	10 636	10 899	9 275	12 326

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Utilities and sanitary services				Wholesale trade, total				Groceries and farm products				Retail trade, total			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over	17 701	18 481	12 250	13 422	18 440	19 127	11 175	12 370	16 390	17 093	11 010	11 871	11 947	12 378	8 186	9 138
Managerial and professional specialty occupations	24 266	24 541	17 890	20 279	28 513	28 892	17 365	20 823	25 054	25 408	14 976	18 911	19 829	20 293	13 053	15 228
Executive, administrative, and managerial occupations	25 323	25 689	17 007	19 214	28 988	29 346	17 247	21 195	25 205	25 558	15 014	19 094	20 044	20 532	13 016	15 132
Officials and administrators, public administration	17 205	17 205	—	—	19 061	19 061	—	—	24 005	24 005	—	—	17 668	19 695	—	—
Financial managers	27 883	28 053	19 138	21 969	26 319	26 460	18 184	21 196	23 862	24 191	15 422	18 073	23 556	23 833	14 503	21 666
Managers, marketing, advertising, and public relations	28 491	28 486	—	31 974	29 999	30 173	25 072	23 373	25 693	25 867	24 992	20 109	21 942	22 201	15 450	17 501
Administrators, education and related fields	19 967	20 140	18 380	—	35 959	37 050	—	1 855	36 458	36 458	—	—	23 300	23 641	15 821	46 409
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	24 750	25 019	19 548	18 527	25 277	25 419	21 265	17 975	23 709	24 278	19 714	14 771	20 403	20 996	14 590	14 350
Managers and administrators, n.e.c.	27 408	27 731	17 860	20 029	31 300	31 735	16 706	22 149	28 030	28 422	15 866	19 737	19 731	20 262	12 578	14 818
Salaried	27 532	27 835	18 057	20 348	31 727	32 153	16 888	22 638	28 328	28 624	16 001	19 815	20 200	20 774	12 420	14 642
Self-employed	22 715	23 466	16 104	12 893	25 277	25 769	14 130	19 694	24 962	25 431	10 173	19 205	17 494	17 771	13 492	15 543
Management related occupations	20 895	21 234	15 894	17 441	20 602	20 898	13 997	17 137	20 005	20 360	10 193	18 063	19 115	19 470	13 693	14 758
Accountants and auditors	20 655	20 871	16 779	17 574	20 268	20 623	15 448	18 226	19 411	19 746	12 228	22 265	18 372	18 831	12 357	14 085
Personnel, training, and labor relations specialists	23 436	23 724	19 036	19 935	22 083	22 570	18 138	16 206	19 885	20 187	15 002	14 283	18 143	18 645	12 555	12 937
Buyers and purchasing agents	20 028	20 144	18 154	16 305	19 908	20 134	11 765	16 932	19 963	20 327	9 259	17 384	19 510	19 744	14 771	15 940
Inspectors and compliance officers	16 593	17 055	12 841	14 893	15 100	15 273	10 538	11 453	12 477	12 477	18 005	—	14 511	15 955	6 981	5 713
Other management related occupations	23 746	24 478	11 285	14 469	27 143	27 836	13 103	17 235	25 553	25 837	—	—	22 135	22 472	17 631	20 693
Professional specialty occupations	23 068	23 200	18 938	21 345	23 597	24 000	17 927	17 707	21 653	21 996	14 292	15 839	18 486	18 809	13 291	15 953
Engineers, architects, and surveyors	23 247	23 367	18 686	21 555	24 015	24 392	16 556	18 793	22 651	22 724	22 715	15 760	21 260	21 479	15 519	19 938
Architects	23 041	23 013	22 005	28 815	20 797	20 683	—	—	18 737	18 737	—	—	23 472	24 092	12 797	22 063
Engineers	23 322	23 445	18 740	21 601	20 797	24 452	16 556	18 793	22 783	22 864	22 715	15 760	20 959	20 959	16 371	18 979
Civil engineers	21 699	21 698	15 924	20 651	23 501	23 110	27 481	22 859	18 319	17 674	27 505	19 745	20 663	21 059	4 795	26 005
Electrical and electronic engineers	23 687	23 811	19 924	21 999	24 059	24 718	17 690	21 179	21 419	21 006	23 125	17 305	20 328	19 223	22 481	16 911
Industrial engineers	23 022	23 040	20 207	21 095	22 849	23 012	24 109	16 734	20 839	20 839	25 005	—	19 313	20 799	13 612	20 613
Mechanical engineers	24 127	24 515	17 348	22 649	23 177	23 694	12 146	16 013	24 587	24 578	—	—	20 016	19 861	21 341	13 005
Other engineers	23 535	23 654	17 851	22 388	24 609	24 980	15 800	18 535	24 351	24 772	7 595	15 226	21 729	22 003	13 763	19 775
Surveyors and mapping scientists	17 125	17 178	12 727	10 641	7 770	7 770	—	—	—	—	—	—	17 325	17 325	—	—
Computer systems analysts and scientists	22 780	22 921	18 796	23 238	22 840	23 050	20 154	21 634	20 442	20 308	23 370	20 576	22 195	22 426	19 624	19 177
Operations and systems researchers and analysts	22 163	22 166	22 552	20 198	23 703	24 149	20 256	19 825	21 816	22 024	—	—	22 974	20 907	18 558	18 495
Mathematical scientists	20 737	20 787	14 665	17 954	19 856	19 985	17 338	12 945	12 936	11 359	—	—	16 690	16 901	10 672	—
Natural scientists	19 688	19 759	14 951	17 829	22 428	22 964	16 901	15 290	16 888	17 274	13 135	32 005	18 400	17 914	17 409	15 811
Chemists, except biochemists	18 961	18 795	22 664	16 446	21 148	21 684	18 314	14 581	16 826	17 735	9 686	—	20 062	17 443	14 005	—
Other natural scientists	20 322	20 525	13 072	18 521	23 466	23 939	14 687	15 929	16 937	16 940	16 297	32 005	17 944	18 022	19 679	15 811
Health diagnosing occupations	34 126	39 138	25 005	—	34 174	35 811	13 005	17 685	29 200	29 200	—	—	31 459	32 026	30 495	18 665
Health assessment and treating occupations	18 481	18 094	—	—	19 041	19 913	14 789	17 685	21 764	23 812	1 285	—	21 613	21 766	18 913	19 921
Registered nurses	20 497	19 853	—	—	22 951	23 311	—	—	18 250	18 250	—	—	20 579	20 757	3 205	—
Other health assessment and treating occupations	16 842	16 842	—	—	18 487	19 395	14 789	17 685	23 238	26 490	1 285	—	21 619	21 772	18 947	19 921
Teachers, except postsecondary	20 532	20 547	20 341	18 592	21 507	22 205	11 747	10 759	16 225	16 225	—	—	8 241	8 336	6 893	9 984
Social scientists and urban planners	22 564	22 705	17 246	9 538	28 871	29 194	23 838	23 852	25 292	25 383	—	—	26 539	26 801	21 472	14 597
Social and recreation workers	20 176	21 075	2 405	29 195	23 264	24 625	3 455	22 362	11 991	11 543	3 455	13 005	11 376	11 098	7 206	7 005
Lower and judges	37 229	37 316	—	27 885	48 175	48 029	47 957	43 213	46 015	46 015	—	—	41 594	42 386	25 779	28 928
Writers, artists, entertainers, and athletes	22 184	22 225	19 440	22 756	18 403	18 485	15 501	13 851	16 477	16 776	12 426	15 326	12 329	12 667	8 968	14 019
Other professional specialty occupations	18 931	19 113	15 005	21 165	20 149	20 679	1 848	14 205	30 415	30 415	—	—	17 315	17 731	13 976	7 875
Technical, sales, and administrative support occupations	16 645	17 078	12 987	13 644	19 241	19 657	12 259	13 338	17 473	17 878	11 551	13 158	13 360	13 701	9 304	10 365
Technicians and related support occupations	17 614	17 852	14 619	15 435	16 523	16 803	13 853	13 788	15 434	15 758	10 392	12 998	14 847	14 994	12 954	12 599
Health technologists and technicians	13 171	14 548	8 895	8 547	18 661	19 417	7 155	11 875	13 634	14 917	7 505	—	15 748	16 099	13 230	11 012
Health technologists and technicians	12 503	11 994	13 215	—	9 482	8 307	—	18 005	7 791	7 791	—	—	23 379	23 379	—	—
Licensed practical nurses	13 183	14 584	8 758	8 547	19 852	20 794	7 155	9 294	17 919	22 382	7 505	—	15 405	15 728	13 230	11 012
Other health technologists and technicians	17 438	17 627	14 980	14 938	15 366	15 480	12 562	13 098	13 399	13 557	9 023	12 363	13 645	13 819	12 269	12 100
Engineering and science technicians	19 719	19 735	17 795	15 592	15 592	15 758	14 334	16 939	16 634	16 522	12 005	12 783	14 082	14 174	12 131	11 905
Electrical and electronic technicians	19 874	20 203	17 898	14 164	15 392	18 338	12 188	11 801	13 308	17 255	10 005	12 005	18 804	19 479	12 851	12 450
Industrial and mechanical engineering technicians	15 846	15 988	13 909	14 577	14 437	14 838	10 073	12 684	14 749	15 811	8 505	18 005	13 604	13 348	12 977	10 966
Drafting and surveying technicians	17 318	17 549	—	15 321	13 669	16 089	11 779	10 909	12 493	12 584	6 552	11 717	14 614	12 306	13 980	13 980
Other engineering and science technicians	18 561	18 727	16 598	17 713	17 648	17 876	15 476	14 650	16 819	17 266	11 376	13 472	15 599	15 711	13 475	13 191
Technicians, except health, engineering, and science	27 358	27 508	—	—	22 542	22 913	11 588	20 005	18 339	19 661	1 158	20 005	21 266	21 410	7 205	24 553
Airplane pilots and navigators	17 171	17 170	17 596	18 841	16 569	16 819	16 883	2 405	18 329	18 829	—	—	10 782	10 802	13 338	13 338
Air traffic controllers and broadcast equipment operators	18 166	18 201	16 768	15 362	18 044	18 232	15 746	15 529	16 086	16 423	12 239	14 459	16 400	16 385	15 804	15 841
Computer programmers	18 572	18 824	16 412	18 777	16 740	16 923	15 431	14 170	18 062	19 018	1 565	8 605	14 464	14 677	11 830	11 065
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Utilities and sanitary services				Wholesale trade, total				Groceries and farm products				Retail trade, total			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations	19 239	19 493	14 440	15 163	21 110	21 354	13 951	15 291	18 911	19 165	12 341	14 352	13 897	14 215	9 584	10 718
Supervisors and proprietors, sales occupations	21 978	22 071	16 655	23 259	24 905	25 224	15 246	18 210	23 301	23 698	18 110	14 827	18 110	18 370	13 162	14 757
Salaries	21 961	22 054	16 640	23 242	24 890	25 211	15 239	18 200	23 290	23 687	18 100	14 815	18 100	18 360	13 155	14 750
Self-employed	22 417	22 417	15 115	14 727	21 892	22 165	13 052	17 340	20 094	20 423	9 313	14 197	16 899	17 069	12 924	14 410
Sales representatives, finance and business services	19 200	19 402	12 400	14 727	21 892	22 165	13 052	17 340	20 094	20 423	9 313	14 197	16 899	17 069	12 924	14 410
Sales representatives, commodities, except retail	24 308	24 308	12 430	9 800	20 957	21 190	14 843	6 839	18 425	18 737	12 800	8 005	17 232	18 220	11 232	14 770
Sales workers, retail and personal services	12 496	12 496	12 366	6 091	14 082	14 276	10 104	15 162	18 191	18 379	7 906	8 021	24 210	24 244	14 354	11 941
Cashiers	11 891	12 052	12 680	6 091	9 276	9 661	8 463	6 676	9 081	9 742	7 502	6 718	11 408	11 703	8 221	8 920
Other sales occupations, retail and personal services	13 615	13 770	12 680	14 970	14 449	14 559	11 114	11 921	14 556	14 485	12 666	18 011	12 219	12 472	8 967	9 675
Sales related occupations	18 086	18 783	12 005	—	19 373	19 635	12 843	11 219	16 991	17 447	11 116	12 116	16 188	16 755	7 368	8 579
Administrative support occupations, including clerical	16 002	16 493	12 573	13 051	12 635	12 965	10 695	10 297	13 075	13 419	11 041	11 419	9 498	9 702	8 321	8 536
Supervisors, administrative support occupations	21 356	21 723	16 478	17 459	17 841	18 342	13 852	14 393	17 152	17 508	13 803	13 244	15 653	15 995	13 056	13 221
Computer equipment operators	15 869	16 336	9 614	12 069	14 213	14 562	12 419	11 913	12 761	13 149	8 663	13 209	13 026	13 199	12 431	12 405
Secretaries, stenographers, and typists	16 737	17 669	9 614	12 069	18 926	19 693	7 744	11 454	16 674	17 428	8 561	5 005	12 953	13 611	8 281	11 254
Secretaries	19 461	19 920	6 763	14 005	21 979	22 238	7 722	15 045	19 033	19 175	—	—	14 641	15 400	8 459	12 446
Stenographers and typists	11 384	11 789	10 785	11 769	9 904	9 609	7 687	5 805	8 294	8 659	8 561	5 005	7 301	7 388	7 942	9 260
Receptionists	17 596	17 498	14 734	15 613	6 609	6 609	16 394	8 100	7 803	7 803	—	—	7 223	7 227	5 813	2 816
Other information clerks	15 574	15 730	13 239	19 791	12 974	13 041	8 494	8 100	9 765	9 765	—	—	8 286	8 582	8 145	5 432
File clerks	11 557	11 454	13 012	6 783	9 431	9 624	8 494	8 465	12 606	12 604	17 355	6 076	6 082	6 310	5 885	3 793
Other records processing occupations, except financial	18 124	18 416	15 389	14 996	11 701	11 933	10 330	10 331	12 634	12 604	10 516	11 785	9 642	9 835	8 292	8 993
Bookkeepers, accounting, and auditing clerks	16 507	16 776	13 551	14 672	12 850	12 857	14 594	10 756	13 559	13 720	9 239	10 962	10 450	10 541	9 187	8 512
Payroll and timekeeping clerks	15 985	16 277	13 146	15 704	13 158	13 426	11 640	17 810	12 869	13 779	8 732	10 728	10 673	11 131	7 718	10 951
Other financial records processing occupations	15 947	16 623	11 837	13 178	13 566	13 566	9 065	11 811	12 529	12 690	11 060	10 962	10 059	10 406	8 228	8 662
Telephone operators	17 447	17 805	14 645	10 695	16 025	18 114	6 184	3 203	8 733	8 459	—	—	5 774	5 694	5 584	7 272
Mail and message distributing occupations	11 176	11 704	9 750	10 177	8 669	8 731	8 731	7 326	8 911	9 273	7 891	9 263	6 107	5 967	7 284	5 773
Production coordinators and expeditors	18 434	18 758	15 000	14 441	14 582	14 855	12 009	12 586	12 008	12 104	11 538	9 263	10 050	10 143	8 660	9 797
Traffic, shipping, and receiving clerks	13 900	14 288	12 562	13 209	10 419	10 526	8 711	9 308	12 923	13 344	11 538	10 963	9 187	9 202	9 295	8 575
Stock and inventory clerks	15 968	16 268	13 562	13 818	10 278	10 526	8 711	8 925	10 880	11 274	8 769	9 851	6 849	6 873	6 525	7 167
Other material recording, scheduling, and distributing clerks	13 254	13 628	11 311	11 462	14 409	14 727	12 492	11 866	13 380	13 468	13 447	12 572	11 555	11 904	9 083	8 806
Adjusters and investigators	18 051	18 260	16 682	14 341	15 927	16 049	14 960	14 777	14 520	14 900	11 300	20 500	12 181	12 615	9 412	7 964
Date-entry keyers	14 552	15 042	12 735	17 624	15 139	15 709	12 064	9 708	13 461	13 318	—	13 572	10 361	10 730	8 357	8 492
Other administrative support occupations	16 245	16 757	11 750	13 461	12 725	12 948	11 012	9 561	11 961	11 849	13 969	11 310	8 994	9 197	7 678	7 764
Service occupations	12 604	13 238	10 262	9 777	10 083	10 675	7 771	9 176	10 229	10 952	7 432	9 690	5 342	5 260	5 073	5 943
Private household occupations	13 118	13 420	11 875	11 643	10 468	10 788	8 639	8 441	9 344	9 551	8 030	7 563	8 659	8 829	8 108	8 654
Protective service occupations	12 379	12 600	11 538	11 544	9 808	10 068	8 362	8 366	8 687	8 850	7 514	7 563	8 098	8 157	7 941	8 075
Guards	20 707	21 132	16 991	17 005	17 053	17 931	13 637	12 145	19 931	19 639	24 995	—	16 111	16 771	11 981	17 288
Other protective service occupations	12 475	13 189	9 934	9 557	10 513	10 653	7 664	9 269	10 345	10 345	7 384	9 908	5 269	5 182	4 967	5 909
Food preparation and service occupation	12 387	12 775	12 641	8 035	11 504	12 939	6 683	9 617	11 319	12 551	6 803	10 622	5 179	5 094	4 688	5 863
Health service occupations	13 282	15 030	13 109	9 600	9 600	11 593	5 529	4 420	8 090	8 657	6 900	245	7 949	8 020	4 880	7 148
Cleaning and building service occupations, except household	12 452	13 162	9 517	9 771	9 718	10 258	7 721	9 247	10 361	10 561	7 554	9 707	5 830	5 749	5 979	6 269
Personal service occupations	14 014	15 528	6 207	8 200	13 324	14 002	12 486	8 733	15 836	16 639	8 010	11 614	6 658	6 943	6 558	6 056
Farming, forestry, and fishing occupations	11 386	11 630	9 803	10 388	9 001	9 354	6 049	8 124	8 415	8 667	4 707	9 984	7 452	7 700	6 164	5 776
Mechanics and repair occupations	18 746	19 112	14 926	15 335	15 247	15 526	12 359	12 801	15 417	15 870	12 367	12 995	13 310	13 503	10 663	11 609
Mechanics and repairers	17 688	18 009	14 760	14 626	14 170	14 304	12 187	12 801	14 939	15 142	12 494	14 077	12 627	12 763	10 386	11 346
Automobile mechanics, including body	22 652	22 870	17 666	18 225	18 672	18 737	17 650	19 398	18 493	19 343	12 961	14 072	17 410	17 474	13 886	14 626
Automobile mechanics, repairers	16 500	16 787	14 477	14 745	12 694	12 891	10 093	11 086	14 752	14 860	13 115	13 146	12 455	12 592	10 254	11 351
Industrial machinery repairers	17 600	17 773	16 588	13 102	14 721	14 824	13 471	12 951	14 709	14 751	13 576	15 141	12 680	12 920	10 094	10 672
Electronic repairers, communications and industrial equipment	19 453	19 712	15 131	18 003	13 005	13 062	13 185	10 306	15 935	16 631	13 277	7 405	11 663	11 757	9 988	11 283
Heating, air conditioning, and refrigeration mechanics	17 200	17 219	16 757	19 828	13 888	14 065	10 140	11 558	14 262	14 142	11 005	12 742	14 896	15 029	13 243	11 255
Other mechanics and repairers	16 961	17 294	14 134	14 186	14 253	14 334	12 572	12 572	14 863	15 163	11 711	14 277	11 967	11 667	10 340	10 962
Construction trades	18 917	19 356	14 707	15 258	13 856	14 131	10 584	12 206	13 661	13 908	10 976	10 908	12 511	12 701	10 237	10 795
Supervisors, construction occupations	22 519	22 872	17 745	17 740	19 796	20 243	10 583	10 583	19 866	19 919	17 165	17 390	18 400	19 453	9 115	13 420
Carpenters	15 778	16 232	12 647	15 822	11 929	12 267	8 314	10 270	11 651	11 783	7 058	8 075	11 526	11 718	8 383	9 759
Electricians	18 315	18 612	15 390	14 822	14 944	15 139	10 945	13 832	14 567	14 626	13 898	14 900	14 273	14 447	12 944	11 264
Painters, construction and maintenance	15 781	16 020	15 174	14 945	10 748	10 941	9 840	9 783	11 933	11 422	8 031	11 346	10 668	10 266	7 708	9 466
Plumbers, pipefitters, and steamfitters	16 456	17 248	11 783	13 241	14 687	14 768	11 699	11 699	15 049	15 049	17 105	14 935	13 339	13 447	11 424	12 952
Other construction trades	19 357	19 695	15 729	16 133	12 908	13 159	10 893	12 064	11 691	11 913	14 701	7 359	12 529	12 677	10 876	11 051

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Employed males 16 years and over—Con.										
Precision production, craft, and repair occupations—Con.										
Extrusive occupations	17 340	17 036	17 200	17 741	17 293	17 698	7 274	10 285	14 265	15 363
Precision production occupations	19 187	19 495	15 336	16 021	17 042	17 635	12 905	13 345	16 443	16 791
Supervisors, production occupations	21 899	22 165	17 747	17 582	18 620	19 119	14 305	14 321	16 624	12 113
Precision metalworking occupations	19 373	19 594	16 269	17 450	13 932	14 206	11 694	11 821	17 608	13 714
Food and die makers	17 735	17 732	17 765	16 005	16 376	16 619	14 875	12 504	12 311	11 447
Machinists	19 263	19 630	15 643	16 676	13 872	13 872	12 905	12 779	14 527	16 925
Mechanics	18 904	18 937	18 515	18 167	13 957	14 102	12 295	12 810	14 194	11 240
Sheet metal workers	19 660	19 736	17 191	18 726	14 129	14 484	8 920	12 810	12 621	12 201
Other precision metal workers	19 014	22 203	9 525	11 474	12 539	14 184	8 822	21 509	12 265	11 508
Precision textile, apparel, and furnishings machine workers	15 457	15 852	7 725	1 065	13 446	13 446	10 994	9 005	10 530	9 949
Precision food production occupations	18 164	15 854	12 668	15 485	15 317	15 076	14 991	13 981	14 225	8 803
Precision inspectors, testers, and related workers	16 474	16 554	14 725	14 585	15 317	15 464	10 991	9 078	13 926	12 019
Plant and system operators	16 270	16 513	13 641	14 459	19 249	19 780	13 743	24 947	16 621	14 198
Other precision production occupations	18 749	18 856	17 472	13 767	11 560	11 941	8 030	9 364	13 240	12 346
Operators, fabricators, and laborers										
Machine operators, assemblers, and inspectors	13 297	14 255	10 453	11 296	11 945	12 368	10 040	9 880	13 561	7 331
Machine operators and tenders, except precision	17 064	17 520	13 880	14 607	11 202	11 683	9 840	9 285	10 665	7 659
Metalworking and plastic working machine operators	15 973	16 471	13 100	14 060	11 244	11 782	9 816	9 201	10 471	9 084
Fabricating machine operators, n.e.c.	17 328	17 668	11 915	15 386	11 041	11 915	11 258	11 360	10 526	9 481
Metal and plastic processing and woodworking machine operators	16 671	18 663	9 372	14 005	10 330	12 115	6 475	7 006	11 593	13 005
Printing machine operators	12 284	12 567	10 895	10 205	10 673	12 788	9 578	9 226	11 547	7 769
Operating machine operators	14 137	14 450	12 442	13 687	12 470	11 788	11 261	12 677	12 842	8 272
Textile machine operators	19 239	20 039	7 505	15 638	10 243	11 260	5 067	14 125	7 833	8 721
Textile sewing machine operators	8 663	7 996	14 005	—	7 922	8 785	6 147	6 333	8 070	8 133
Laundry and dry cleaning machine operators	9 226	9 566	6 930	3 005	7 431	5 745	8 978	1 005	6 262	6 610
Packaging and filling machine operators	12 439	11 024	15 087	14 426	10 591	10 772	9 403	10 400	10 991	8 103
Furnace, kiln, and oven operators, except food	19 189	19 462	16 258	19 447	12 748	13 350	10 889	10 592	13 889	13 051
Other specified machine operators	14 029	14 531	10 701	11 721	10 714	11 149	9 818	9 317	11 079	10 772
Miscellaneous and not specified machine operators	15 257	15 777	12 604	13 742	10 111	12 320	10 111	8 774	11 399	8 974
Fabricators, assemblers, and hand working occupations	18 649	19 018	15 473	15 280	11 379	11 775	9 641	10 312	11 619	8 199
Welders and cutters	19 296	19 572	16 683	16 241	12 542	12 890	6 335	4 421	12 573	8 886
Solders and brazers	15 005	15 005	—	—	7 233	7 725	8 121	8 805	8 565	9 589
Assemblers	13 750	14 299	11 496	11 269	10 120	10 540	8 707	8 126	10 492	8 381
Hand working occupations	13 877	14 298	13 605	11 170	10 772	10 901	10 965	8 399	8 121	7 688
Production inspectors, testers, samplers, and weighers	18 133	18 133	14 905	15 615	10 751	10 925	9 846	9 341	7 672	8 374
Graders and sorters, except agricultural	14 695	14 636	18 852	12 605	7 831	8 187	7 157	5 862	10 357	7 700
Other production inspectors, testers, samplers, and weighers	17 880	18 173	14 907	15 744	14 023	14 038	14 246	13 793	7 273	6 213
Transportation and material moving occupations										
Transportation occupations	13 765	14 449	11 658	11 992	13 550	13 964	11 122	11 515	14 845	8 594
Motor vehicle operators	12 918	13 495	11 478	11 717	13 657	14 044	11 163	11 496	14 988	9 574
Truck drivers	12 889	13 455	11 488	11 705	13 638	14 028	11 126	11 352	14 348	9 209
Driver-sales workers	12 808	13 383	13 375	11 590	13 146	13 536	10 932	11 230	12 600	9 211
Other motor vehicle operators	14 479	14 699	13 146	11 099	15 920	16 054	13 830	13 425	10 830	9 126
Rail and other transportation occupations	13 929	14 303	12 985	13 141	13 999	14 501	11 469	11 780	12 588	11 226
Other motor vehicle operators	15 470	16 307	8 887	16 138	19 491	19 661	18 753	20 395	16 798	8 123
Material moving equipment operators	15 976	16 401	12 866	13 378	12 851	13 378	10 953	11 587	12 056	7 002
Supervisors, material moving equipment operators	20 632	20 632	22 019	13 133	13 530	15 493	11 757	17 835	12 518	12 297
Crane, hoist and winch operators	17 369	18 147	12 980	16 893	13 744	14 067	14 333	14 333	14 586	12 781
Excavating, grading, and dozer machine operators	15 595	15 618	13 351	13 216	13 103	13 963	8 313	12 201	15 418	17 986
Other material moving equipment operators	15 652	16 225	12 561	12 758	12 552	13 104	10 455	11 072	12 298	4 225
Handlers, equipment cleaners, helpers, and laborers										
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	11 010	11 894	9 186	9 831	9 512	9 738	8 531	8 475	10 599	6 331
Helpers, craft and production	17 765	19 573	13 489	13 479	16 368	16 268	19 234	22 095	16 649	13 705
Construction laborers	13 331	11 728	10 017	10 023	7 575	7 384	9 028	9 648	5 707	6 458
Freight, stock, and material handlers	13 730	14 327	10 585	12 702	10 585	11 326	7 020	8 626	10 177	5 993
Garage and service station occupations, and equipment cleaners	10 401	11 441	8 795	9 326	8 758	8 922	7 861	5 344	5 666	5 663
Hand packers and packagers	12 946	13 900	10 889	8 688	8 206	8 269	8 038	9 212	5 709	5 878
Hand laborers, except construction	10 508	9 994	12 167	4 640	10 105	8 921	7 906	8 014	6 108	8 201
Hand laborers, except construction	10 852	11 519	9 323	7 753	10 105	10 333	9 001	8 903	7 398	8 406

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Unlites and sanitary services				Wholesale trade, total				Groceries and farm products				Retail trade, total			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over	10 686	10 777	10 047	9 971	8 630	8 726	7 710	7 189	7 602	7 783	6 328	6 088	5 304	5 304	5 251	5 092
Managerial and professional specialty occupations	14 362	14 475	13 174	14 900	12 899	12 910	12 844	11 158	11 954	11 989	8 111	10 123	9 042	9 051	8 615	8 436
Executive, administrative, and managerial occupations	14 137	14 197	13 050	14 664	13 029	13 051	12 109	11 263	12 023	12 045	8 056	10 472	9 431	9 474	8 677	8 566
Officials and administrators, public administration	18 636	18 636	18 636	18 636	14 154	14 154	14 154	14 154	14 154	14 154	14 154	14 154	14 154	14 154	14 154	14 154
Financial managers	16 205	16 375	13 610	24 213	14 590	14 208	12 124	10 935	14 962	15 042	8 445	12 983	11 530	11 600	9 155	11 154
Managers, marketing, advertising, and public relations	13 897	13 636	15 008	13 636	14 459	14 562	13 999	10 793	13 638	13 638	7 028	11 076	9 851	9 867	9 025	8 543
Administrators, education and related fields	7 821	7 821	7 821	7 821	7 821	7 821	7 821	7 821	7 821	7 821	7 821	7 821	7 821	7 821	7 821	7 821
Managers, medicine and health	16 598	17 112	13 565	12 832	14 618	14 702	17 025	12 480	13 533	14 124	1 325	13 024	11 482	11 590	10 264	9 421
Other specified managers	14 266	14 173	15 110	14 469	13 564	13 589	12 114	11 189	12 766	12 822	8 283	9 437	8 948	8 987	8 066	8 293
Managers and administrators, n.e.c.	14 446	14 360	15 460	14 469	13 937	13 954	12 310	11 645	13 110	12 984	2 054	10 216	9 339	9 396	8 188	8 398
Self-employed	8 216	7 920	7 920	8 216	8 755	8 817	7 683	6 730	9 217	9 806	7 791	7 791	7 338	7 338	7 338	7 955
Management related occupations	13 790	13 925	12 264	14 543	11 321	11 297	11 279	11 423	10 428	10 429	8 159	10 856	10 266	10 307	9 642	9 146
Accountants and auditors	13 133	13 276	11 076	12 872	11 300	11 268	11 480	12 485	10 254	10 275	8 970	11 181	9 466	9 397	9 880	9 191
Personnel, training, and labor relations specialists	16 123	16 295	14 906	17 755	14 299	14 282	13 915	11 377	11 037	11 279	6 774	5 431	9 841	9 904	9 109	8 642
Buyers and purchasing agents	13 843	13 917	12 405	17 795	10 531	10 535	10 028	9 655	10 413	10 399	7 712	11 299	10 795	10 849	9 902	9 483
Inspectors and compliance officers	10 477	10 327	12 641	2 095	7 419	7 366	8 005	10 005	6 876	6 876	—	10 005	8 693	8 693	7 784	7 024
Other management related occupations	14 482	14 463	15 478	15 005	12 913	12 926	11 554	15 242	11 979	11 979	—	35 410	9 262	9 376	7 634	7 657
Professional specialty occupations	14 816	15 045	13 408	15 432	12 057	11 899	15 697	10 547	11 161	11 315	8 654	7 260	7 533	7 446	8 242	7 853
Engineers, architects, and surveyors	14 440	15 019	11 078	16 457	13 951	13 488	18 530	12 713	12 575	13 382	—	4 005	10 840	10 649	10 495	21 346
Architects	19 142	19 142	19 142	19 142	11 455	7 921	25 485	—	—	—	—	—	10 311	10 789	3 015	22 640
Engineers	13 479	15 014	11 106	16 457	14 062	13 720	18 109	12 713	12 575	13 382	—	4 005	11 104	10 615	14 793	10 125
Civil engineers	13 433	14 873	7 881	11 618	14 061	14 873	4 623	1 565	—	—	—	—	2 846	2 846	—	—
Electrical and electronic engineers	14 184	14 388	9 824	16 527	17 135	16 177	22 157	7 119	10 901	12 005	—	4 005	12 533	11 283	20 745	—
Industrial engineers	16 698	16 028	24 905	16 527	10 663	10 976	12 993	—	—	—	—	—	30 594	30 594	11 005	10 125
Mechanical engineers	12 652	13 350	—	13 071	11 279	—	—	—	—	—	—	—	10 599	10 208	—	—
Other engineers	15 435	16 257	11 453	18 125	15 888	15 423	19 362	20 172	15 348	15 348	—	—	5 655	5 655	—	—
Surveyors and mapping scientists	11 331	11 517	10 505	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer systems analysts and scientists	17 617	17 699	14 615	18 651	18 325	18 185	19 598	18 939	19 702	19 702	—	—	15 836	15 707	17 900	11 590
Operations and systems researchers and analysts	18 203	18 562	14 299	17 338	14 669	14 691	10 532	13 469	19 910	19 910	—	—	14 621	14 348	9 930	—
Mathematical scientists	13 748	13 566	14 369	21 505	13 613	13 128	19 509	15 244	9 890	8 890	—	10 299	11 025	11 009	10 766	—
Natural scientists	14 148	14 394	12 319	12 319	12 446	12 610	10 433	8 546	9 896	9 896	8 005	1 705	7 399	6 932	5 465	16 369
Chemists, except biochemists	14 004	14 215	12 823	—	13 483	13 685	10 433	17 005	9 847	9 846	8 005	1 705	7 884	7 963	5 844	—
Other natural scientists	14 343	14 608	11 078	—	11 672	11 872	10 433	6 008	9 951	11 356	8 005	1 705	7 289	6 717	5 302	16 369
Health diagnosing occupations	14 765	5 005	20 637	12 005	15 341	15 341	—	—	13 049	14 098	4 305	12 005	9 983	9 863	11 250	9 165
Health assessment and treating occupations	13 705	14 143	11 397	12 005	11 123	11 351	2 005	—	10 043	10 043	—	—	11 459	11 237	12 215	11 908
Registered nurses	13 968	14 492	11 397	12 005	11 490	11 615	2 005	—	10 345	10 345	—	—	10 345	10 251	10 572	12 100
Other health assessment and treating occupations	9 294	9 294	—	—	10 506	10 830	5 266	6 932	14 396	16 249	4 305	12 005	11 520	11 293	12 308	11 903
Teachers, except postsecondary	13 666	13 730	12 553	33 005	11 745	10 410	18 601	12 673	15 097	14 331	14 255	—	4 310	4 239	7 667	5 066
Social scientists and urban planners	14 785	14 376	17 461	20 500	13 634	13 307	18 030	19 877	10 701	10 373	17 005	12 005	12 550	12 369	11 285	23 901
Social and recreation workers	11 434	11 942	10 631	—	11 536	12 372	10 005	7 005	25 069	28 748	—	—	5 583	5 583	3 090	8 643
Lawyers and judges	20 578	20 510	19 424	—	27 843	24 115	71 599	8 849	8 507	8 507	7 012	7 041	20 374	19 591	29 606	—
Writers, artists, entertainers, and others	13 869	14 065	13 733	12 260	9 907	9 967	10 354	8 849	8 637	8 637	7 012	7 041	6 749	6 749	6 533	6 470
Other professional specialty occupations	15 205	15 606	13 618	10 005	9 215	9 473	13 543	9 001	10 417	10 417	—	—	8 625	8 625	5 294	3 255
Technical, sales, and administrative support occupations	10 334	10 346	10 115	9 882	8 404	8 405	8 369	7 773	7 845	7 838	7 512	7 547	5 406	5 403	5 405	5 184
Technicians and related support occupations	12 201	12 326	10 783	12 177	10 906	10 759	11 698	10 739	9 573	9 675	8 122	8 302	8 831	8 751	9 229	8 764
Health technologists and technicians	10 552	11 620	8 963	15 894	10 862	10 466	12 042	6 353	9 112	9 112	—	—	6 532	6 464	6 384	6 384
Licensed practical nurses	17 315	21 970	8 005	—	10 472	10 699	9 672	—	2 002	2 002	—	—	5 764	5 652	6 681	3 079
Other health technologists and technicians	9 876	10 737	6 804	15 894	10 958	10 458	15 005	6 353	11 778	11 778	—	—	6 697	6 609	7 045	7 045
Engineering and science technicians	11 639	11 689	10 773	11 682	9 839	9 715	11 714	9 038	8 111	8 043	8 464	8 193	8 463	8 391	8 879	8 635
Electrical and electronic technicians	13 990	13 951	14 788	11 336	10 713	10 785	9 577	11 792	10 509	10 509	—	—	9 616	9 872	8 306	8 457
Industrial and mechanical engineering technicians	14 850	14 654	10 631	—	7 140	7 140	—	5 005	10 401	10 401	—	—	10 447	11 587	7 643	—
Drafting and surveying technicians	11 124	11 011	10 548	13 810	9 188	9 472	4 156	3 752	13 001	13 001	—	—	7 325	7 188	9 384	6 989
Other engineering and science technicians	11 404	11 648	9 318	7 833	9 821	9 557	13 418	9 114	7 645	7 509	8 464	7 418	8 724	8 642	9 191	13 655
Technicians, except health, engineering, and science	13 106	13 225	11 684	13 368	11 651	11 507	11 664	13 939	10 901	11 193	7 717	8 525	9 288	9 181	10 360	9 351
Airplane pilots and navigators	22 005	22 005	22 005	22 005	52 880	17 421	—	110 500	—	—	—	—	16 873	16 873	—	23 675
Air traffic controllers and broadcast equipment operators	9 501	10 366	12 915	9 605	12 030	12 093	—	8 115	11 349	11 349	4 631	—	7 444	7 170	—	—
Computer programmers	14 006	14 402	12 915	15 033	12 105	12 093	12 426	10 033	9 439	9 439	10 802	11 267	11 938	11 906	12 071	11 445
Other technicians, except health, engineering, and science	11 989	12 297	9 913	13 142	10 271	10 279	10 341	10 033	9 439	9 439	—	—	7 946	7 906	7 130	7 575

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Utilities and sanitary services				Wholesale trade, total				Groceries and farm products				Retail trade, total			
	Race			Spanish origin¹	Race			Spanish origin¹	Race			Spanish origin¹	Race			Spanish origin¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over—Con																
Technical, sales, and administrative support occupations—Con																
Sales occupations																
Supervisors and proprietors, sales occupations																
Sales representatives, finance and business services																
Sales representatives, commodities, except retail																
Sales workers, retail and personal services																
Cashiers																
Other sales occupations, retail and personal services																
Sales related occupations																
Administrative support occupations, including clerical																
Supervisors, administrative support occupations																
Computer equipment operators																
Secretaries, stenographers, and typists																
Stenographers and typists																
Receptionists																
Other information clerks																
File clerks																
Other records processing occupations, except financial																
Bookkeepers, accounting, and auditing clerks																
Payroll and timekeeping clerks																
Other financial records processing occupations																
Telephone operators																
Mail and message distributing occupations																
Production coordinators and expeditors																
Traffic, shipping, and receiving clerks																
Stock and inventory clerks																
Other material recording, scheduling, and distributing clerks																
Adjusters and investigators																
Data-entry keyers																
Other administrative support occupations																
Service occupations																
Private household occupations																
Protective service occupations																
Guards																
Other protective service occupations																
Service occupations, except protective and household																
Food preparation and service occupation																
Health service occupations																
Cleaning and building service occupations, except household																
Personal service occupations																
Farming, forestry, and fishing occupations																
Precision production, craft, and repair occupations																
Mechanics and repairers																
Supervisors, mechanics and repairers																
Automobile mechanics, including body																
Industrial machinery repairers																
Electronic repairers, communications and industrial equipment																
Heating, air conditioning, and refrigeration mechanics																
Other mechanics and repairers																
Construction trades																
Supervisors, construction occupations																
Carpenters																
Electricians																
Painters, construction and maintenance																
Plumbers, pipefitters, and steamfitters																
Other construction trades																

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Unlabeled and sanitary services				Wholesale trade, total				Groceries and farm products				Retail trade, total			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Precision production, craft, and repair occupations—Con																
Extraneous occupations	5 475	9 490	3 245	—	5 901	2 724	—	7 716	6 885	3 005	—	7 716	4 426	3 163	5 374	—
Precision production occupations	13 275	13 314	13 564	12 092	8 788	9 234	7 190	7 122	7 122	8 070	6 306	7 091	8 847	6 860	8 883	7 794
Supervisors, production occupations	16 242	16 132	17 564	13 586	11 477	11 659	9 963	10 570	10 139	10 268	8 306	10 851	8 941	9 000	8 667	8 341
Precision metalworking occupations	14 008	14 143	13 555	12 445	6 573	6 539	7 001	7 009	5 034	5 818	2 164	1 780	5 691	5 618	6 660	7 266
Tool and die makers	—	—	—	—	6 124	5 934	7 005	6 005	—	—	—	—	6 127	7 478	2 225	—
Machinists	8 093	9 224	1 305	—	6 638	6 170	6 697	7 770	4 892	4 755	5 205	1 780	6 732	5 981	7 908	9 616
Sheet metal workers	13 765	17 777	—	—	6 724	6 497	10 005	—	—	—	—	—	7 997	7 997	—	—
Other precision metal workers	17 126	17 777	16 751	12 445	6 552	6 653	4 362	7 259	5 409	9 005	5 005	—	5 549	5 526	6 535	6 927
Precision textile, apparel, and furnishings machine workers	1 973	2 005	—	—	5 427	5 516	5 592	4 907	6 037	6 040	5 005	—	5 489	5 532	5 532	6 134
Precision food production occupations	12 544	12 276	—	—	6 434	6 693	5 752	5 899	6 431	6 684	5 755	5 890	5 927	5 907	6 106	6 308
Precision inspectors, testers, and related workers	13 102	13 111	—	15 695	7 688	7 478	11 151	5 130	—	—	—	—	8 927	8 987	7 959	8 370
Plant and system operators	10 543	10 614	—	10 129	10 648	11 758	4 375	19 805	—	1 805	6 755	—	6 608	9 280	4 338	10 696
Other precision production occupations	7 650	9 780	3 755	10 876	7 308	7 281	7 479	6 449	2 936	2 936	—	—	7 647	7 633	7 589	7 089
Employed females 16 years and over—Con																
Operators, fabricators, and laborers	8 336	8 798	7 540	7 270	6 300	6 409	6 247	5 465	5 854	6 024	5 857	4 843	5 491	5 451	5 873	5 546
Machine operators, assemblers, and inspectors	9 708	10 076	8 957	7 940	6 308	6 415	6 372	5 320	5 406	5 508	5 774	4 304	5 343	5 258	5 802	5 400
Machine operators and tenders, except precision	9 678	10 018	8 714	8 974	6 767	6 949	6 489	5 848	6 950	6 375	6 410	5 527	5 325	5 246	5 787	5 452
Metalworking and plastic working machine operators	8 921	9 414	7 870	—	7 518	7 270	7 870	5 668	6 598	6 598	—	—	8 220	8 258	9 162	15 235
Fabricating machine operators, n.e.c.	8 264	8 441	6 845	—	7 669	7 994	3 605	4 405	—	—	—	—	6 527	6 503	7 865	335
Metal and plastic processing and woodworking machine operators	6 980	7 668	5 519	10 405	7 995	6 653	7 322	7 332	6 007	4 702	7 584	4 505	6 211	6 061	6 446	5 731
Printing machine operators	8 764	8 088	10 026	9 619	6 956	6 930	7 307	7 358	6 214	6 422	4 260	7 005	6 771	6 658	7 443	6 105
Textile machine operators	—	—	905	—	6 168	6 139	5 735	5 745	4 654	4 888	4 278	16 205	4 487	4 224	5 553	4 516
Textile sewing machine operators	5 530	5 708	—	—	5 955	5 978	6 360	5 485	13 923	5 361	40 005	5 135	5 363	5 320	5 416	5 374
Laundry and dry cleaning machine operators	9 005	—	9 005	—	7 025	4 272	4 278	5 112	3 866	3 556	4 515	4 515	3 847	3 445	4 118	4 384
Packaging and filling machine operators	8 696	9 408	7 805	—	7 025	7 123	7 165	6 580	7 469	7 123	5 981	6 961	5 721	5 704	5 532	5 571
Furnace, kiln, and oven operators, except food	15 455	17 577	14 318	—	6 973	9 351	4 429	6 085	15 813	15 813	—	—	6 721	6 721	6 705	10 584
Other specified machine operators	9 374	9 211	11 064	8 037	5 809	6 131	5 429	4 373	5 428	5 786	4 923	4 450	5 182	5 153	5 644	8 835
Miscellaneous and not specified machine operators	9 882	10 400	8 037	8 691	7 095	7 243	6 768	6 212	7 396	7 973	6 637	5 625	5 098	4 987	5 843	5 090
Fabricators, assemblers, and hand working occupations	9 346	9 878	7 851	7 000	6 944	7 011	6 803	6 427	5 358	5 303	5 464	5 615	5 141	5 039	5 832	5 226
Welders and cutters	15 526	15 632	14 915	20 348	6 956	7 583	6 276	6 519	6 076	6 076	—	6 076	8 339	9 003	5 245	9 117
Solders and brazers	10 287	9 235	12 056	5 005	6 408	6 271	8 065	2 356	—	—	—	—	5 461	5 532	5 005	6 505
Assemblers	7 482	7 898	6 639	4 610	7 081	7 143	6 983	6 738	5 588	5 499	5 943	6 134	5 326	5 154	6 316	5 265
Hand working occupations	13 274	16 196	4 505	—	4 925	4 946	4 942	4 543	4 543	4 394	4 404	4 277	4 581	4 630	4 397	4 394
Production inspectors, testers, samplers, and weighers	10 458	10 781	11 240	6 677	5 257	5 305	5 759	4 388	4 591	4 591	5 155	3 953	5 850	5 828	5 835	5 361
Grocers and sorters, except agricultural	3 711	1 445	3 960	2 444	4 588	4 604	4 988	4 015	4 400	4 452	4 602	3 882	4 592	4 689	4 246	3 280
Other production inspectors, testers, samplers, and weighers	11 020	11 008	—	7 983	7 788	7 773	7 818	7 122	7 318	6 908	7 736	6 634	7 346	7 143	7 681	7 267
Transportation and material moving occupations	8 277	7 847	10 399	8 963	7 382	7 245	8 964	7 742	8 294	8 085	10 463	9 223	5 349	5 274	6 314	5 245
Transportation occupations	7 347	6 494	10 234	7 433	6 989	6 870	8 667	8 063	8 084	7 835	10 907	10 647	5 144	5 078	6 145	5 093
Motor vehicle operators	7 351	6 491	10 234	7 433	6 986	6 860	8 770	8 063	8 101	7 853	10 907	10 647	5 144	5 078	6 145	5 093
Truck drivers	7 138	6 197	10 528	7 083	6 711	6 578	8 449	7 483	6 741	6 430	10 080	8 976	4 482	4 768	5 867	4 998
Driver-sales workers	9 749	9 749	—	—	8 825	8 752	10 579	11 659	10 822	10 822	15 503	13 571	5 660	5 576	6 931	5 465
Other motor vehicle operators	8 732	8 582	8 546	11 005	5 337	5 082	10 980	4 670	10 035	9 976	11 705	—	5 320	5 483	4 552	5 766
Rail and water transportation occupations	10 985	6 765	—	—	7 694	6 838	9 255	—	5 045	5 045	—	—	5 609	5 453	6 005	10 046
Material moving equipment operators	10 987	11 316	—	14 672	9 014	8 995	9 531	7 201	9 535	9 758	9 316	6 376	7 362	7 441	7 073	6 468
Supervisors, material moving equipment operators	19 005	19 005	—	—	3 454	3 257	6 890	9 885	13 005	13 005	—	—	9 324	9 066	11 965	—
Crane, hoist, and winch operators	7 875	5 564	—	—	12 905	12 004	16 589	—	14 005	14 005	—	—	8 551	9 066	—	6 005
Excavating, grading, and dozer machine operators	11 206	13 659	7 360	17 005	3 855	504	16 005	—	1 205	1 205	—	—	3 343	3 153	4 005	—
Other material moving equipment operators	11 259	11 215	—	10 005	9 632	9 919	8 866	7 164	9 547	9 776	9 316	6 376	7 434	7 556	7 009	6 484
Handlers, equipment cleaners, helpers, and laborers	7 122	7 779	6 236	6 369	6 104	6 231	5 873	5 496	5 993	6 206	5 700	5 378	5 542	5 514	5 851	5 619
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	17 834	17 834	—	—	10 685	10 605	—	—	7 421	8 126	—	—	7 075	7 117	6 637	—
Helpers, craft and production	9 989	10 171	—	—	7 033	7 431	5 732	6 560	3 361	830	3 833	8 478	4 638	4 459	7 043	5 194
Construction laborers	9 244	11 351	6 599	—	5 684	6 178	2 855	5 963	5 289	5 385	4 205	—	4 876	5 018	4 088	8 255
Freight, stock, and material handlers	6 550	6 754	6 380	9 865	5 704	5 687	6 045	4 996	5 289	5 385	4 895	5 597	4 942	4 942	5 800	4 972
Grocery and service station occupations, and equipment cleaners	8 268	10 056	2 704	—	6 200	6 354	5 742	4 617	7 084	7 352	5 259	5 268	3 914	3 875	4 418	4 215
Hand packers and packagers	8 292	10 046	8 526	4 695	6 208	6 163	6 075	5 514	6 206	6 379	5 295	5 471	7 386	6 779	7 138	7 138
Laborers, except construction	6 703	7 404	5 599	5 398	6 208	6 381	5 688	5 503	5 689	6 105	5 295	4 935	5 246	5 216	5 194	5 291

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Cont.

United States

Employed males 16 years and over

	General merchandise stores				Food, bakery, and dairy stores				Automotive dealers and gasoline stations				Apparel and accessory stores			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Managerial and professional specialty occupations	12 128	12 640	8 847	8 998	11 653	11 888	9 207	10 107	13 723	14 041	9 447	11 009	13 183	13 833	7 973	9 172
Executive, administrative, and managerial occupations	20 811	21 358	13 719	15 063	19 952	20 438	13 928	16 338	24 947	25 190	15 206	19 425	21 776	22 440	13 379	13 256
Executive, administrative, and managerial occupations	21 254	21 810	14 113	15 063	19 943	20 422	13 922	16 398	24 907	25 226	15 181	19 575	22 191	22 842	13 844	13 559
Financial managers	12 208	12 709	8 883	19 907	21 862	21 862	14 960	22 005	26 747	26 747	—	—	22 505	22 505	—	—
Managers, marketing, advertising, and public relations	26 565	27 099	14 883	19 907	25 759	25 737	14 960	22 005	24 367	24 575	17 893	26 932	25 381	25 539	16 974	19 873
Managers, education and related fields	20 022	20 512	13 537	16 431	22 571	22 903	15 345	18 316	24 667	24 801	17 842	22 547	22 547	18 213	12 939	11 844
Administrators	34 961	34 961	—	12 005	47 117	47 117	—	—	20 885	20 953	16 005	100 500	20 391	20 391	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	24 405	24 695	18 659	22 815	18 437	19 268	14 973	13 680	20 275	20 922	10 105	10 839	23 063	23 650	13 252	11 903
Managers and administrators, n.e.c.	21 279	21 927	13 459	13 968	19 695	20 195	13 622	16 651	26 007	26 314	14 580	18 825	23 743	24 474	14 261	14 355
Salaried	21 414	22 092	13 524	14 114	20 119	20 610	13 841	16 927	26 764	27 088	14 208	18 985	24 088	24 919	13 404	14 707
Self-employed	17 386	17 630	7 510	4 624	16 776	17 182	12 417	14 990	20 146	20 258	17 131	17 883	20 681	20 556	31 628	10 631
Management related occupations	19 663	20 086	14 455	14 759	19 846	20 094	15 596	15 369	19 439	19 764	14 810	15 345	21 648	22 214	14 094	13 244
Accountants and auditors	17 676	18 308	11 064	12 609	17 441	17 654	15 217	8 887	19 282	19 874	15 138	15 839	18 017	18 831	14 958	15 597
Personnel, training, and labor relations specialists	18 349	18 636	14 650	11 439	20 747	21 189	16 388	16 665	22 052	22 565	9 165	14 306	18 363	18 982	12 689	8 005
Buyers and purchasing agents	20 290	20 618	15 359	16 513	20 484	20 641	16 421	18 297	18 590	18 579	24 125	20 592	22 444	22 824	13 754	13 027
Inspectors and compliance officers	14 171	14 171	—	—	21 896	22 402	10 885	23 965	6 422	8 499	—	—	22 005	22 005	—	—
Other management related occupations	20 494	20 997	14 832	18 804	24 424	25 423	3 305	22 005	21 156	21 999	17 946	30 792	33 645	34 842	21 005	7 999
Professional specialty occupations	17 369	17 795	10 876	13 898	20 178	20 871	14 033	14 285	23 151	23 581	15 812	15 139	15 796	16 455	9 604	10 482
Engineers, architects, and surveyors	22 526	22 714	18 173	19 472	22 452	22 772	14 559	20 180	21 726	21 862	10 408	17 362	19 054	20 943	5 953	18 567
Architects	26 465	26 733	14 005	32 005	23 626	23 873	14 375	17 505	27 655	28 253	—	—	20 897	23 884	9 576	11 005
Engineers	21 133	21 188	18 867	14 458	22 129	22 453	12 196	26 005	22 369	21 452	10 408	—	17 870	19 288	2 051	21 476
Civil engineers	25 499	24 933	—	—	21 811	22 644	—	—	25 132	25 132	—	—	6 795	14 505	2 051	—
Electrical and electronic engineers	17 485	17 188	20 005	6 705	19 117	18 537	24 505	24 505	20 392	20 392	—	—	18 005	18 005	—	—
Industrial engineers	22 388	22 505	12 005	13 005	22 711	22 932	15 005	21 005	16 847	17 266	10 005	—	14 799	14 799	—	20 165
Mechanical engineers	18 987	18 669	22 741	13 005	21 476	21 412	—	—	15 314	15 676	10 925	—	27 664	27 664	—	—
Other engineers	21 823	22 485	13 005	19 015	23 313	24 074	8 255	—	24 372	24 198	—	—	22 638	23 637	—	23 005
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	17 709	17 709	—	—	—	—	—	—
Computer systems analysts and scientists	22 600	22 994	19 078	19 584	22 903	22 531	26 005	23 604	23 875	24 207	21 373	22 745	19 993	19 793	23 269	—
Operations and systems researchers and analysts	21 675	21 470	18 297	—	18 088	18 131	17 005	8 310	21 642	21 642	—	—	17 838	19 578	—	—
Mathematical scientists	21 788	26 846	—	—	13 405	14 952	—	—	10 910	10 910	—	—	—	—	—	—
Natural scientists	14 571	14 591	—	—	21 667	18 890	37 929	—	25 961	25 961	—	33 005	49 065	49 065	—	—
Chemists, except biochemists	—	—	—	—	16 227	16 005	17 005	—	19 537	19 537	—	—	—	—	—	—
Other natural scientists	14 571	14 591	—	—	22 677	18 955	64 085	—	27 567	27 567	—	33 005	49 065	49 065	—	—
Health diagnosing occupations	26 716	26 716	—	—	15 051	19 796	—	—	39 949	39 949	—	—	54 529	54 529	—	—
Health assessment and treating occupations	20 449	20 694	14 813	23 125	21 798	23 007	5 860	22 643	18 418	17 100	—	25 005	22 222	22 430	—	—
Registered nurses	15 703	19 549	3 205	—	21 272	21 272	—	24 265	18 418	17 100	—	—	—	—	—	—
Other health assessment and treating occupations	20 493	20 703	15 760	23 125	21 808	23 041	5 860	24 265	18 418	17 100	—	25 005	22 222	22 430	—	—
Teachers, except postsecondary	11 882	12 611	7 313	—	14 570	15 027	15 058	—	13 969	13 576	—	—	—	—	—	—
Social scientists and urban planners	31 105	31 689	8 845	17 330	25 907	25 428	35 716	12 732	24 510	24 284	—	18 559	6 429	6 672	7 785	—
Social and recreation workers	6 070	3 395	—	—	9 072	10 931	1 405	—	11 897	11 897	—	—	4 291	3 825	7 555	—
Lawyers and judges	43 786	45 237	—	21 255	33 575	34 589	—	—	85 366	85 366	—	—	29 559	29 559	—	—
Writers, artists, entertainers, and athletes	13 383	13 671	8 632	11 814	14 721	15 409	9 948	7 354	20 209	21 674	13 880	7 515	13 696	14 182	9 273	9 795
Other professional specialty occupations	44 531	44 531	—	—	18 595	20 060	4 805	—	13 039	12 696	15 605	15 005	7 384	6 400	13 005	—
Technical, sales, and administrative support occupations	10 944	11 317	8 544	8 598	12 667	12 960	9 533	10 663	16 017	16 219	11 864	13 271	11 826	12 318	7 769	8 689
Technicians and related support occupations	15 946	16 034	14 344	15 276	15 260	15 417	11 290	10 847	16 416	16 823	13 159	11 811	16 180	16 333	17 005	—
Health technologists and technicians	17 857	18 648	16 367	—	20 005	20 005	—	—	18 399	18 399	—	—	10 005	10 005	—	—
Licensed practical nurses	28 125	28 125	—	—	—	—	—	—	27 008	27 008	—	—	—	—	—	—
Other health technologists and technicians	15 902	15 575	16 367	—	20 005	20 005	—	—	14 094	14 094	—	—	—	—	—	—
Engineering and science technicians	15 020	15 137	13 122	16 504	11 487	11 488	11 313	10 133	15 395	15 670	15 199	11 275	15 112	15 044	15 790	—
Electrical and electronic technicians	15 340	15 424	13 802	18 434	16 316	15 573	25 005	20 005	17 867	17 362	22 411	15 341	16 967	18 088	9 125	—
Industrial and mechanical engineering technicians	9 812	9 812	—	—	4 386	4 492	—	8 723	16 456	16 456	—	—	16 680	16 680	—	—
Drafting and surveying technicians	14 181	14 420	10 449	18 084	12 843	13 186	9 109	8 723	12 109	12 516	11 982	9 772	15 658	15 095	19 955	—
Other engineering and science technicians	16 893	17 148	14 805	21 370	13 253	14 208	11 269	—	15 498	15 815	17 005	15 498	15 498	15 815	8 811	—
Technicians, except health, engineering, and science	16 510	16 565	14 826	14 530	17 411	17 461	11 172	11 641	16 370	16 315	11 672	12 331	16 478	16 579	18 980	—
Alpine pilots and navigators	29 724	26 724	—	—	20 300	20 300	—	—	21 324	21 652	7 205	24 553	9 005	9 005	—	—
Air traffic controllers and broadcast equipment operators	7 805	7 805	—	—	14 300	14 300	—	—	17 331	17 331	—	—	16 212	16 212	—	—
Computer programmers	16 898	17 008	12 846	17 465	14 879	16 854	11 172	12 453	17 033	16 791	17 821	20 005	16 212	16 517	18 980	—
Other technicians, except health, engineering, and science	15 600	15 555	16 386	12 320	17 150	17 327	—	8 275	15 858	16 491	9 609	7 241	17 764	18 324	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	General merchandise stores				Food, bakery, and dairy stores				Automotive dealers and gasoline stations				Apparel and accessory stores			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations	11 642	11 976	8 957	8 940	13 110	13 419	9 648	10 783	16 308	16 503	12 072	13 607	12 110	12 588	7 775	8 759
Supervisors and proprietors, sales occupations	17 193	17 503	12 458	13 492	17 125	17 385	13 122	14 566	19 248	19 420	12 753	18 173	18 513	18 969	12 146	14 792
Salaries and proprietors, sales occupations	17 429	17 741	12 593	13 572	17 831	18 059	14 009	15 474	19 698	20 275	12 185	15 555	18 313	18 841	12 576	15 711
Self-employed	14 481	15 019	7 672	5 004	15 292	15 555	8 274	12 664	18 972	19 344	13 748	17 342	19 248	19 547	9 706	11 701
Sales representatives, finance and business services	15 702	16 045	12 469	5 004	19 290	19 566	8 274	12 664	23 553	23 509	14 065	17 342	18 757	19 947	25 005	2 855
Sales representatives, commodities, except retail	27 471	29 384	12 485	7 529	20 005	20 005	8 274	12 664	23 553	23 509	14 065	17 342	18 757	19 947	25 005	2 855
Sales workers, retail and personal services	8 955	9 149	7 482	5 004	8 223	8 327	7 249	7 606	14 705	14 824	11 749	12 531	8 945	9 290	6 579	6 587
Other sales occupations, retail and personal services	4 953	4 859	5 537	4 895	8 117	8 187	7 303	7 670	15 138	15 140	5 553	5 572	6 924	7 381	3 916	4 251
Other sales occupations, except retail	9 273	9 452	8 267	7 881	8 776	9 024	6 812	7 219	15 092	15 242	12 242	12 946	8 992	9 323	6 435	6 441
Sales related occupations	14 208	13 919	16 546	7 881	15 746	16 998	8 529	7 219	17 218	17 883	7 100	12 946	5 938	7 845	1 005	—
Administrative support occupations, including clerical	8 299	8 450	7 588	7 486	10 367	10 504	9 183	10 078	11 426	11 594	9 792	9 181	8 497	8 770	7 452	8 164
Supervisors, administrative support occupations	15 061	15 359	13 250	12 802	16 547	16 858	13 961	13 968	18 426	18 598	15 596	9 896	15 433	15 941	13 328	13 417
Computer equipment operators	3 288	3 590	11 930	12 079	13 343	13 473	11 997	12 462	13 743	14 337	12 393	15 383	10 858	10 905	12 391	8 285
Secretaries, stenographers, and typists	9 485	10 082	6 087	12 034	10 908	11 848	8 560	9 676	18 632	19 190	6 989	20 116	9 412	10 155	7 163	12 306
Secretaries	10 736	12 448	5 917	10 523	11 550	12 491	13 451	9 269	20 637	21 449	6 989	20 116	10 780	11 449	7 964	14 689
Stenographers and typists	7 640	8 355	6 608	12 724	8 784	9 813	4 055	4 305	5 710	5 710	9 395	—	5 524	5 130	6 094	7 265
Receptionists	4 372	4 372	—	6 005	6 342	6 446	4 055	4 305	7 465	7 338	9 395	—	11 585	11 585	—	—
Other information clerks	6 204	6 331	5 441	5 390	11 638	11 999	8 881	16 125	13 454	13 091	17 866	7 905	10 007	9 818	12 426	12 005
File clerks	6 154	6 353	6 516	3 484	9 418	9 881	16 125	10 644	5 460	5 049	9 320	14 045	7 248	9 176	4 000	8 986
Other records processing occupations, except financial	8 288	8 503	7 413	6 433	11 623	11 704	11 835	10 644	10 911	10 941	11 073	11 421	8 356	8 987	6 514	9 660
Bookkeepers, accounting, and auditing clerks	9 520	10 160	6 817	8 173	11 146	11 304	9 685	8 910	10 941	10 943	11 672	7 385	10 057	10 123	9 083	9 660
Payroll and timekeeping clerks	9 010	8 979	—	7 261	12 401	12 401	—	17 005	12 860	13 031	—	10 505	9 116	6 920	20 285	19 975
Other financial records processing occupations	7 573	8 062	4 867	7 540	9 112	9 061	11 672	9 256	13 388	13 731	10 583	12 768	11 434	13 170	6 930	6 654
Telephone operators	4 678	5 059	3 059	6 155	15 005	15 005	—	15 005	4 336	3 612	10 605	3 955	—	—	—	—
Mail and message distributing occupations	7 000	7 422	6 200	8 995	7 434	7 933	6 512	7 933	12 000	11 855	16 315	11 633	7 515	8 174	6 878	7 512
Production coordinators and expeditors	8 643	9 030	5 538	8 895	10 682	10 574	8 959	11 114	12 000	11 855	16 315	11 633	7 515	8 174	6 878	7 512
Traffic, shipping, and receiving clerks	8 146	7 978	8 764	6 675	13 140	13 176	12 885	8 959	9 462	9 539	9 108	7 694	7 836	7 875	8 062	8 289
Stock and inventory clerks	5 504	5 458	5 346	5 676	8 161	8 216	7 380	8 511	8 999	8 763	6 977	8 257	4 735	4 446	5 581	5 983
Other material recording, scheduling, and distributing clerks	7 906	8 238	6 621	6 841	10 947	10 836	11 395	9 494	14 548	14 625	9 359	8 960	7 098	7 875	8 670	7 722
Adjusters and investigators	8 844	8 966	8 621	6 520	14 185	14 777	9 206	9 774	12 939	13 239	8 439	7 386	13 858	14 798	9 948	6 105
Data-entry keyers	7 829	8 162	5 508	5 294	12 262	12 025	12 478	13 992	12 383	12 559	13 402	13 033	8 302	9 636	2 305	9 125
Other administrative support occupations	8 522	8 901	7 381	6 942	8 739	8 703	9 239	8 641	10 733	10 913	9 243	8 311	9 949	10 109	9 603	5 844
Service occupations	7 210	7 327	6 866	6 800	6 618	6 500	7 139	7 012	6 554	6 469	6 834	6 541	5 487	5 568	4 970	6 546
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	8 819	8 899	8 468	9 480	11 236	12 165	9 620	9 612	9 362	9 541	8 804	8 122	6 894	7 675	3 466	7 823
Guards	8 205	8 182	8 253	9 104	10 693	11 414	9 677	9 105	8 947	9 028	8 804	5 772	6 458	7 140	3 466	7 823
Other protective service occupations	15 169	15 726	11 737	13 936	18 499	19 815	7 922	24 005	17 463	17 908	6 316	22 041	18 257	18 257	—	—
Service occupations, except protective and household	6 657	6 720	6 480	6 293	6 205	6 059	6 739	6 842	6 316	6 190	6 720	6 312	5 188	5 078	5 216	—
Food preparation and service occupations	4 594	4 539	4 650	5 119	5 633	5 530	5 917	5 544	6 536	6 694	5 655	7 258	8 469	8 142	13 005	6 398
Health service occupations	18 230	19 829	4 650	3 645	12 666	12 888	12 888	8 730	1 636	1 636	—	—	—	—	—	—
Cleaning and building service occupations, except household	7 031	7 121	6 796	6 479	6 514	6 355	7 052	7 440	6 316	6 173	6 771	6 278	4 750	4 490	5 102	6 347
Personal service occupations	9 396	9 633	8 465	8 636	7 541	7 620	8 340	4 698	5 565	5 612	4 505	—	12 761	14 002	6 565	3 411
Farming, forestry, and fishing occupations	6 616	6 708	4 527	5 895	8 158	8 102	8 320	10 492	6 379	7 022	6 006	2 241	12 258	12 258	—	—
Precision production, craft, and repair occupations	13 387	13 694	11 242	11 578	14 758	14 981	11 878	13 619	13 072	13 232	10 369	11 634	13 298	13 938	8 394	10 850
Mechanics and repairers	12 305	12 483	10 778	10 976	16 211	16 257	16 356	13 865	13 072	13 066	10 462	11 593	12 732	13 033	7 134	12 388
Supervisors, mechanics, and repairers	16 630	16 876	13 542	11 479	20 393	20 182	24 885	17 513	17 513	17 565	13 426	15 549	18 724	20 232	16 005	20 438
Automobile mechanics, including body	9 845	9 760	10 461	8 970	14 703	14 770	14 196	11 598	12 598	12 736	10 235	11 560	10 305	10 305	—	20 285
Industrial machinery repairers	11 564	12 375	7 717	9 067	15 589	15 901	15 344	13 457	11 956	12 224	8 725	12 258	14 695	15 484	8 472	19 005
Electronic repairers, communications and industrial equipment	15 478	15 939	13 998	14 589	20 664	20 664	21 604	11 026	12 553	12 888	7 577	6 815	14 693	14 693	—	—
Heating, air conditioning, and refrigeration mechanics	14 832	14 949	14 012	11 976	17 382	17 214	21 604	16 529	14 730	14 399	13 123	14 505	17 435	17 170	1 505	—
Other mechanics and repairers	14 329	14 625	10 765	13 388	16 020	15 980	15 417	16 529	10 730	10 750	10 135	10 478	9 876	10 136	6 157	10 117
Construction trades	15 104	15 545	11 918	11 918	14 665	15 228	8 660	9 455	12 624	12 760	10 061	11 965	21 209	21 304	7 226	12 567
Supervisors, construction occupations	21 813	22 881	5 005	13 961	22 537	23 382	7 085	10 982	12 858	13 465	9 198	6 895	21 009	21 954	12 505	16 656
Carpenters	15 022	15 257	12 220	10 036	12 643	13 151	8 833	10 982	10 312	10 515	8 256	8 555	10 501	10 193	6 005	16 656
Electricians	16 374	17 272	10 640	12 163	16 012	15 801	24 255	6 405	15 778	15 921	5 434	12 460	11 144	10 426	—	—
Painters, construction and maintenance	10 722	11 397	7 144	6 118	10 833	11 618	6 306	13 155	13 154	13 323	10 332	13 400	7 695	7 857	7 495	4 505
Plumbers, pipefitters, and steamfitters	15 541	15 936	12 687	12 687	14 809	14 709	13 353	13 155	13 754	13 723	14 849	13 754	7 731	7 403	2 505	8 092
Other construction trades	13 722	13 571	15 269	12 682	11 803	13 474	2 378	—	11 430	10 926	—	12 156	14 499	15 825	8 005	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	General merchandise stores				Food, bakery, and dairy stores				Automotive dealers and gasoline stations				Apparel and accessory stores			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Precision production, craft, and repair occupations—Con.																
Extracure occupations	2 005	2 005	—	—	4 538	2 538	6 892	—	17 722	17 722	—	—	13 449	14 150	8 527	—
Precision production occupations	15 018	15 611	11 738	12 719	14 705	14 929	11 771	12 591	16 328	16 620	12 226	12 206	18 366	19 360	11 594	10 712
Supervisors, production occupations	15 605	16 233	11 769	12 875	19 125	19 377	16 543	16 008	18 898	19 293	13 519	16 088	18 366	19 360	11 594	12 608
Precision metalworking occupations	12 734	11 929	17 970	10 007	13 094	13 560	11 044	11 068	11 945	12 137	7 279	9 392	16 583	15 497	24 015	17 027
Tool and die makers	9 051	8 831	18 513	2 845	15 094	15 094	—	—	18 466	18 208	21 005	—	—	—	—	—
Mechanics	14 771	10 949	28 097	—	13 898	14 766	11 003	13 129	11 807	11 967	7 231	10 102	15 579	13 928	24 015	23 005
Sheet metal workers	7 736	14 205	6 601	—	14 883	14 883	—	—	14 104	14 530	10 005	—	—	—	—	—
Other precision metal workers	13 235	14 652	9 355	13 914	10 144	9 868	11 208	7 770	10 981	12 026	11 115	4 334	15 525	15 525	—	—
Precision textile, apparel, and furnishings machine workers	11 560	11 962	8 879	12 107	13 325	13 325	10 881	15 705	12 410	12 904	9 955	10 109	17 804	17 115	—	12 045
Precision food production occupations	14 830	15 321	12 844	13 012	14 172	14 394	11 140	12 215	10 191	11 031	—	12 505	11 205	11 647	7 381	15 205
Precision inspectors, testers, and related workers	14 001	14 379	10 323	9 675	11 479	10 725	13 066	17 005	13 906	13 925	—	14 347	13 373	14 352	—	—
Plant and system operators	18 466	19 134	13 605	12 789	18 171	17 978	20 172	11 469	12 506	12 604	5 923	14 652	14 005	13 286	—	—
Other precision production occupations	13 263	13 355	12 068	13 714	13 305	13 036	—	18 005	8 071	8 146	9 155	11 252	11 293	13 334	5 926	13 679
Operators, fabricators, and laborers	6 905	6 770	7 739	6 790	7 536	7 472	7 822	7 767	6 606	6 543	7 330	6 627	5 871	5 734	6 515	6 311
Machine operators, assemblers, and inspectors	10 463	10 870	10 743	7 561	10 233	9 894	9 894	9 696	11 832	12 071	10 777	10 728	8 734	8 994	7 991	8 739
Machine operators and tenders, except precision	11 326	12 122	10 242	8 326	10 770	10 921	10 677	10 439	12 614	13 000	10 815	11 684	8 819	9 053	8 049	8 736
Metalworking and plastic working machine operators	15 176	17 562	—	—	6 407	7 119	—	—	6 789	6 688	6 921	7 377	12 862	12 862	—	9 605
Fabricating machine operators, n.e.c.	20 005	20 005	—	—	—	—	—	—	6 905	6 905	—	—	—	—	—	—
Metal and plastic processing and woodworking machine operators	10 037	10 192	10 289	7 055	10 442	10 331	10 735	11 143	10 757	10 505	10 694	19 805	7 950	6 175	9 762	7 952
Printing machine operators	10 099	10 819	7 867	8 269	10 982	11 052	10 302	—	8 698	8 518	10 295	11 005	9 116	9 157	10 648	5 813
Textile machine operators	15 043	15 043	—	—	6 160	6 160	—	—	10 310	15 334	4 830	12 005	10 092	11 375	6 665	—
Textile sewing machine operators	8 591	8 510	—	8 062	7 965	7 965	—	—	7 805	11 911	505	—	8 724	8 795	7 441	8 774
Laundry and dry cleaning machine operators	6 584	6 181	7 127	—	—	—	—	—	38 643	38 643	—	—	3 188	3 188	—	—
Packaging and filling machine operators	10 056	10 159	9 445	6 005	7 914	7 391	8 818	10 095	7 931	8 898	—	—	9 288	7 005	10 962	—
Furnace, kiln, and oven operators, except food	10 273	10 014	10 761	—	14 043	14 333	14 236	12 505	12 845	12 962	12 448	—	5 730	9 005	—	—
Other specified machine operators	10 423	9 973	9 680	9 908	9 819	9 973	8 792	10 052	13 679	13 939	11 882	12 481	8 915	9 500	6 990	8 471
Miscellaneous and not specified machine operators	12 995	14 526	12 421	8 249	11 561	11 761	11 993	10 723	10 980	11 207	10 675	9 534	8 629	8 404	9 284	10 542
Fabricators, assemblers, and hand working occupations	8 313	8 227	12 583	5 833	9 030	9 389	7 098	8 079	9 807	9 803	10 363	7 531	8 586	9 038	6 483	11 164
Welders and cutters	17 137	18 271	11 004	14 358	13 135	13 814	8 367	12 278	12 294	12 387	14 148	6 005	11 970	12 695	9 005	—
Solders and brazers	—	—	—	—	—	—	—	—	10 091	10 091	—	—	—	—	—	—
Assemblers	6 506	6 138	12 557	3 736	9 908	10 810	6 965	9 327	8 822	8 766	9 214	6 653	9 102	10 251	5 879	13 279
Hand working occupations	8 180	8 057	14 182	10 119	7 364	7 529	6 668	5 260	10 912	11 265	17 005	6 605	6 072	5 998	7 265	2 968
Production inspectors, testers, samplers, and weighers	11 184	12 055	10 856	6 743	10 880	10 498	13 773	8 432	10 912	11 479	12 042	5 138	7 635	7 506	13 895	7 042
Graders and sorters, except agricultural	6 153	7 189	—	2 020	6 015	5 778	—	3 728	6 689	6 689	—	—	4 999	6 345	—	1 202
Other production inspectors, testers, samplers, and weighers	13 531	14 398	12 552	8 447	15 911	15 714	20 250	10 073	11 455	11 787	12 042	5 138	10 270	10 130	21 615	9 232
Transportation and material moving occupations	13 615	14 026	12 391	10 819	15 579	16 056	13 219	13 346	9 580	9 710	8 854	7 793	9 581	9 935	8 907	8 063
Transportation occupations	14 437	14 906	12 908	11 210	15 406	15 876	12 892	12 611	9 567	9 701	8 813	7 711	9 581	9 935	8 907	8 063
Motor vehicle operators	14 411	14 906	12 756	11 210	15 406	15 876	12 892	12 611	9 567	9 701	8 813	7 711	9 581	9 935	8 907	8 063
Truck drivers	14 624	15 205	12 592	11 196	15 488	16 086	12 860	12 598	9 559	9 687	8 852	7 730	9 684	9 954	9 558	7 097
Driver-sales workers	13 176	13 255	12 863	9 917	15 221	15 694	14 693	12 433	9 999	10 113	9 988	8 165	9 469	9 733	9 445	7 743
Other motor vehicle operators	11 861	10 852	14 298	11 933	14 449	15 140	8 883	14 550	12 943	12 339	10 992	9 572	13 138	13 024	19 695	18 005
Rail and water transportation occupations	27 605	14 828	73 605	9 945	17 902	17 902	—	21 005	11 012	12 329	4 500	6 295	7 266	7 065	9 904	4 110
Motor moving equipment operators	11 283	11 491	10 963	9 945	16 567	16 963	14 266	16 815	9 861	9 922	9 596	9 531	10 005	10 005	—	—
Supervisors, material moving equipment operators	14 504	15 205	12 322	10 145	22 975	22 975	—	25 805	16 559	17 038	—	9 605	12 991	13 877	5 933	12 174
Crane, hoist and winch operators	22 482	27 047	—	17 005	16 093	16 093	—	16 093	13 412	13 412	—	—	19 005	25 005	—	—
Excavating, grading, and dozer machine operators	5 557	—	—	8 905	14 455	17 231	—	9 005	7 608	7 778	1 205	3 005	10 005	10 005	—	—
Other material moving equipment operators	11 118	11 326	10 888	9 750	16 479	17 082	14 332	16 831	9 390	9 290	9 897	9 998	8 438	9 373	4 961	12 174
Handlers, equipment cleaners, helpers, and laborers	5 055	4 886	5 837	5 713	6 472	6 390	6 606	6 962	5 773	5 684	6 710	5 910	3 958	3 793	4 740	4 342
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	12 443	11 305	15 005	—	17 543	18 297	8 505	—	10 698	10 698	—	—	5 045	5 045	—	—
Helpers, craft and production	5 118	5 405	3 640	9 099	5 338	5 398	5 018	7 396	6 001	6 001	6 921	6 470	2 061	2 441	—	—
Construction laborers	10 264	9 279	17 685	6 326	11 035	7 949	11 035	4 773	13 536	14 639	6 106	10 805	11 404	12 056	—	—
Freight, stock, and material handlers	4 106	4 013	4 618	4 307	6 144	6 085	5 970	6 580	5 386	5 326	—	5 112	3 639	2 627	3 639	3 064
Garage and service station occupations, and equipment cleaners	4 872	4 558	6 219	6 393	6 112	5 747	8 804	6 782	5 710	5 631	6 604	5 853	6 514	6 684	5 858	4 996
Hand packers and packagers	7 351	7 221	7 396	6 326	5 619	5 488	5 619	6 782	8 366	8 366	9 834	6 838	7 337	7 506	6 838	6 680
Laborers, except construction	8 670	8 640	8 809	9 045	12 504	12 917	11 200	11 160	6 643	6 479	7 640	6 854	7 378	7 506	6 876	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	General merchandise stores				Food, bakery, and dairy stores				Automotive dealers and gasoline stations				Apparel and accessory stores			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over	5 828	5 838	5 821	5 229	6 103	6 082	6 271	6 199	6 989	6 999	6 643	6 568	5 418	5 421	5 265	5 175
Managerial and professional specialty occupations	10 229	10 304	9 383	8 858	9 347	9 375	8 649	9 092	11 986	11 958	12 927	11 532	9 576	9 631	8 023	8 514
Executive, administrative, and managerial occupations	10 343	10 427	9 410	9 055	9 375	9 401	8 635	9 433	11 982	11 978	12 959	11 568	9 770	9 837	8 072	8 582
Officials and administrators, public administration	4 213	4 305	3 505	—	—	—	—	—	—	—	—	—	—	—	—	—
Financial managers	10 843	10 880	9 856	12 201	12 781	12 895	—	16 323	14 673	14 774	9 372	15 551	9 586	9 734	7 504	10 487
Managers, marketing, advertising, and public relations	10 051	10 085	10 011	9 278	8 685	8 552	10 546	7 761	12 141	12 197	20 005	7 426	8 375	8 400	7 625	7 058
Administrators, education and related fields	6 677	6 005	5 005	—	5 383	7 730	3 505	—	1 883	1 883	—	—	8 724	8 724	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	12 568	12 636	11 156	11 789	10 623	10 918	7 809	7 592	11 895	11 820	12 683	16 709	11 807	11 962	11 281	8 583
Managers and administrators, n.e.c.	9 362	9 623	8 983	8 921	9 030	9 072	8 092	9 160	11 965	11 957	9 822	10 808	9 248	9 318	7 000	8 081
Salaries	9 643	9 716	8 983	8 938	9 480	9 536	8 216	8 967	12 207	12 212	8 967	11 532	9 435	9 523	7 254	7 842
Self-employed	5 969	5 820	—	5 290	6 644	6 491	—	5 140	8 109	8 308	19 081	842	7 962	7 865	2 399	10 717
Management related occupations	10 601	10 721	9 249	8 273	10 536	10 449	10 878	10 854	10 981	10 908	15 434	11 338	11 668	11 756	9 816	10 753
Accountants and auditors	8 530	8 507	8 161	8 077	9 973	9 840	10 435	10 831	10 901	10 831	15 989	12 284	9 886	9 712	10 769	8 510
Personnel, training, and labor relations specialists	9 846	9 849	9 569	9 101	12 119	12 091	11 531	11 554	11 824	11 824	12 997	13 005	10 128	9 881	11 117	10 220
Buyers and purchasing agents	11 341	11 461	9 890	8 402	10 220	10 159	9 938	12 811	9 851	9 902	—	9 021	12 176	12 289	9 475	11 963
Inspectors and compliance officers	9 716	10 087	3 645	11 005	10 799	9 420	13 755	—	6 315	6 315	—	6 315	8 542	9 874	1 615	—
Other management related occupations	8 485	8 828	6 445	1 841	12 548	12 635	12 596	—	14 529	14 164	17 445	11 342	9 409	9 890	6 505	—
Professional specialty occupations	9 495	9 536	9 148	7 161	8 950	9 007	8 497	6 337	12 121	11 303	16 251	10 525	7 651	7 468	7 769	7 929
Engineers, architects, and surveyors	12 821	12 407	11 005	—	10 543	10 601	—	9 805	8 858	8 858	—	—	9 837	7 042	—	—
Architects	11 873	11 873	—	—	7 978	6 380	—	9 805	8 155	8 155	—	—	5 255	5 255	—	—
Engineers	13 252	12 164	11 005	—	11 012	11 012	—	9 279	9 279	9 279	—	—	11 303	7 794	—	—
Civil engineers	—	—	—	—	2 995	2 995	—	—	9 605	9 605	—	—	—	—	—	—
Electrical and electronic engineers	1 205	1 205	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial engineers	14 835	14 354	11 005	—	11 645	11 645	—	—	3 805	3 805	—	—	6 774	6 774	—	—
Mechanical engineers	—	—	—	—	—	—	—	—	12 433	12 433	—	—	16 210	10 005	—	—
Other engineers	12 369	12 369	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer systems analysts and scientists	16 534	16 405	16 841	22 005	14 905	14 767	23 005	—	18 620	18 050	28 005	—	12 812	12 500	—	—
Operations and systems researchers and analysts	12 226	12 634	9 930	—	12 829	12 829	—	—	16 861	16 861	—	—	17 969	6 759	—	—
Mathematicians	9 925	9 279	10 053	11 053	16 599	16 599	—	—	14 451	14 451	—	—	9 563	7 708	14 862	—
Natural scientists	6 279	6 279	—	—	9 402	10 107	—	—	16 470	14 190	—	—	3 685	3 685	—	—
Physicists	5 258	5 258	—	—	6 303	7 531	—	—	21 525	4 190	—	—	—	—	—	—
Chemists	6 458	6 458	—	—	11 395	11 395	—	—	15 868	4 190	—	—	3 685	3 685	—	—
Other natural scientists	9 480	9 480	—	—	6 005	6 005	—	—	12 219	11 670	12 549	20 005	9 505	9 505	—	—
Health diagnosing occupations	12 080	12 157	14 641	14 933	14 376	14 164	17 423	6 455	9 736	9 765	9 005	—	8 980	8 654	—	12 005
Health assessment and treating occupations	9 295	9 295	—	7 005	12 021	12 021	—	6 455	9 598	9 640	9 005	—	7 582	6 460	—	12 005
Registered nurses	14 000	14 257	14 641	16 419	14 715	14 506	17 423	6 455	11 519	11 519	—	—	10 067	10 067	—	—
Other health assessment and treating occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, except postsecondary	5 926	5 909	8 331	7 406	8 192	8 465	—	505	7 241	7 241	—	—	6 296	5 570	8 538	6 505
Social scientists and urban planners	13 197	13 558	9 354	—	8 237	8 394	1 355	8 105	16 879	16 075	—	—	13 606	8 550	11 005	43 005
Social and recreation workers	5 541	5 593	2 858	—	5 099	5 706	2 005	4 005	13 765	13 765	—	—	786	786	—	—
Lawyers and judges	24 959	24 029	30 113	—	9 435	9 435	—	—	11 110	11 110	—	—	25 793	25 916	25 215	—
Writers, artists, entertainers, and athletes	9 033	9 124	7 697	5 870	7 481	7 540	4 619	6 636	10 630	10 456	—	5 785	7 398	7 397	7 189	5 806
Other professional specialty occupations	13 051	16 479	4 947	—	12 242	12 242	—	—	8 754	8 754	—	—	3 718	3 718	—	—
Technical sales, and administrative support occupations	5 381	5 370	5 563	4 939	6 017	5 981	6 342	6 228	6 772	6 769	6 635	6 595	4 924	4 911	5 015	4 810
Technicians and related support occupations	10 661	10 837	10 327	12 038	10 862	10 884	9 385	12 717	8 032	7 881	8 936	8 032	10 044	10 051	9 717	9 113
Health technologists and technicians	8 231	8 590	6 205	—	9 481	9 481	—	—	8 005	8 005	—	—	5 422	5 422	—	4 790
Licensed practical nurses	7 661	7 661	—	—	10 355	10 355	—	—	9 263	9 263	—	—	—	—	—	—
Other health technologists and technicians	8 517	9 191	6 205	—	9 119	9 119	—	—	—	—	—	—	—	—	—	—
Engineering and science technicians	9 942	10 221	11 659	14 445	9 536	9 557	8 808	14 285	9 937	9 265	14 005	—	8 105	7 344	10 008	9 105
Electrical and electronic technicians	11 633	11 659	11 305	—	11 337	11 228	8 278	18 725	8 193	8 193	—	—	10 698	9 077	12 805	—
Industrial and mechanical engineering technicians	—	—	—	—	10 005	10 005	—	—	10 840	9 928	—	—	7 643	7 643	—	—
Drafting and surveying technicians	8 952	9 498	9 283	14 445	9 430	9 151	13 505	5 405	11 040	10 154	14 005	—	5 983	5 680	9 005	—
Other engineering and science technicians	9 940	9 938	9 791	—	8 856	8 957	7 811	—	11 043	10 456	—	—	10 359	10 100	11 305	9 105
Technicians, except health, engineering, and science	10 979	11 105	10 947	11 678	11 830	11 963	10 275	11 672	7 970	7 840	8 402	8 032	11 645	11 641	8 818	15 605
Airplane pilots and navigators	—	—	—	—	—	—	—	—	22 365	22 365	—	—	—	—	—	—
Air traffic controllers and broadcast equipment operators	6 144	6 144	—	—	—	—	—	—	10 738	10 738	—	—	—	—	—	—
Computer programmers	12 014	12 222	11 800	13 259	12 647	12 523	14 219	11 672	11 471	10 177	18 049	14 805	14 873	14 969	11 995	15 605
Other technicians, except health, engineering, and science	9 528	9 616	9 434	8 741	9 972	10 582	4 753	—	7 735	7 698	3 188	7 609	5 140	5 151	5 005	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	General merchandise stores				Food, bakery, and dairy stores				Automotive dealers and gasoline stations				Apparel and accessory stores			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations.....	4 932	4 932	5 047	4 390	5 672	5 626	6 105	5 946	6 490	6 517	5 907	6 227	4 699	4 697	4 634	4 618
Supervisors and proprietors, sales occupations.....	8 142	8 130	8 406	7 515	8 628	8 585	8 261	8 085	8 809	8 819	7 350	8 367	8 968	8 949	8 798	9 381
Supervisors and proprietors, sales occupations.....	8 246	8 238	8 444	7 509	9 569	9 588	9 333	9 046	9 341	9 385	7 581	10 075	9 162	9 159	9 025	10 101
Saloried.....	6 013	5 977	6 767	7 651	6 955	6 820	6 878	6 935	7 743	7 672	6 835	5 227	8 339	8 267	7 450	6 908
Self-employed.....	7 602	7 768	6 811	5 787	6 755	6 821	—	9 835	10 999	10 980	12 005	6 205	5 877	5 909	5 272	4 204
Sales representatives, finance and business services.....	3 975	3 975	—	—	2 005	2 005	—	—	—	—	—	—	1 615	—	—	—
Sales representatives, commodities, except retail.....	4 589	4 577	4 796	4 158	5 314	5 262	5 895	5 659	5 846	5 867	5 595	5 775	4 006	3 987	4 230	3 998
Sales workers, retail and personal services.....	4 026	3 970	4 517	3 682	5 540	5 540	5 941	5 839	4 533	4 527	4 737	4 418	3 775	3 774	4 205	3 821
Cashiers.....	4 755	4 919	4 919	4 354	4 335	4 375	4 938	4 037	7 740	7 739	7 720	8 089	4 022	4 006	4 205	4 027
Other sales occupations, retail and personal services.....	5 718	5 813	6 336	7 623	2 195	2 168	3 924	10 541	4 183	4 183	—	—	5 002	5 031	2 442	3 833
Sales related occupations.....	6 656	6 636	6 816	6 459	8 201	8 175	8 270	8 258	6 859	6 845	7 273	6 773	6 350	6 337	6 382	6 026
Administrative support occupations, including clerical.....	9 107	9 140	8 998	8 996	10 901	10 860	11 132	11 373	11 482	11 511	13 482	8 810	8 020	8 337	8 019	7 988
Supervisors, administrative support occupations.....	7 763	7 845	7 366	8 727	10 401	10 469	9 859	10 758	8 049	8 086	7 203	7 835	7 556	7 607	6 590	6 485
Computer equipment operators.....	8 256	8 243	8 566	7 944	8 883	8 901	8 885	9 018	6 923	6 923	6 742	6 113	7 493	7 404	6 595	6 023
Secretaries, stenographers, and typists.....	8 650	8 644	9 026	8 377	9 120	9 097	9 870	9 311	6 999	7 003	6 812	6 152	7 707	7 814	6 591	5 957
Secretaries.....	6 442	6 080	7 788	6 378	6 558	6 664	6 091	7 389	5 996	5 958	6 335	5 758	5 896	5 779	6 604	6 389
Stenographers and typists.....	5 130	5 046	6 056	4 060	6 404	6 442	6 191	5 708	5 203	5 265	3 488	4 298	5 603	5 677	4 812	7 178
Receptionists.....	5 228	5 220	5 492	4 476	7 373	7 159	10 925	7 133	6 086	6 154	4 172	4 326	4 154	4 658	3 699	3 719
Other information clerks.....	5 758	6 033	5 120	5 499	5 293	5 527	3 273	5 993	2 946	2 887	6 171	5 232	4 858	4 552	5 841	9 486
File clerks.....	5 733	5 675	6 270	5 443	7 592	7 538	7 908	9 065	7 088	7 087	7 219	6 682	5 500	5 201	6 727	6 628
Other records processing occupations, except financial.....	7 117	7 081	7 379	6 638	8 535	8 477	9 297	8 872	6 906	6 893	7 171	7 832	6 617	6 623	7 363	6 308
Bookkeepers, accounting, and auditing clerks.....	7 701	7 555	8 366	8 541	8 478	8 478	9 311	8 473	7 726	7 758	10 337	5 983	7 612	7 540	8 434	7 728
Payroll and timekeeping clerks.....	6 237	6 281	5 723	5 725	8 037	7 957	8 503	9 486	7 534	7 504	9 796	6 036	5 300	5 275	5 155	3 994
Other financial records processing occupations.....	5 057	4 984	5 684	3 834	8 061	8 385	2 740	9 145	5 403	5 526	6 699	5 436	5 404	5 223	5 585	4 474
Telephone operators.....	5 557	5 447	7 726	6 399	5 954	6 843	6 971	4 957	4 832	4 832	1 605	4 379	5 672	5 388	5 475	5 106
Mail and message distributing occupations.....	5 597	5 582	5 843	5 431	6 565	6 582	5 738	7 389	8 506	8 200	7 204	11 333	5 995	5 953	6 087	5 258
Production coordinators and expeditors.....	6 287	6 259	6 247	4 419	9 670	9 470	10 340	9 091	7 084	6 864	9 432	7 092	5 685	5 278	6 783	6 762
Traffic, shipping, and receiving clerks.....	5 292	5 221	5 628	4 324	6 942	6 876	7 965	4 694	6 533	6 538	8 555	9 307	4 711	4 664	4 814	4 132
Stock and inventory clerks.....	5 904	5 904	5 774	6 018	8 841	8 820	7 583	4 941	8 573	8 447	6 521	4 594	5 387	5 103	6 048	5 171
Other material receiving, scheduling, and distributing clerks.....	6 955	6 938	7 116	6 871	8 714	8 690	9 934	5 983	7 790	7 690	9 991	7 486	6 648	6 511	7 660	4 707
Adjusters and investigators.....	7 094	6 904	7 431	6 895	9 019	9 032	8 968	8 264	7 796	7 648	9 184	8 930	6 996	6 495	7 550	8 058
Date-entry keyers.....	6 354	6 315	6 763	6 480	6 597	6 562	6 915	6 236	6 327	6 290	7 685	5 514	5 607	5 544	6 043	5 603
Other administrative support occupations.....	4 872	4 783	5 215	4 730	3 833	3 766	4 346	3 242	4 067	3 771	5 184	3 414	4 686	4 580	4 766	4 846
Service occupations.....	5 464	5 506	5 407	4 549	6 849	6 453	8 024	7 057	11 609	12 624	11 247	—	5 338	5 061	6 842	—
Private household occupations.....	5 285	5 319	5 233	4 532	6 746	6 321	8 024	7 057	11 609	12 624	11 247	—	5 235	4 928	6 842	—
Protective service occupations.....	10 833	10 847	11 441	5 587	14 005	14 005	—	—	—	—	—	—	8 996	8 996	—	—
Other protective service occupations.....	4 726	4 591	5 181	4 780	3 802	3 739	4 296	3 175	3 979	3 674	5 121	3 414	4 501	4 402	4 529	4 802
Service occupations, except protective and household.....	4 389	4 204	5 189	4 181	3 745	3 690	4 283	2 839	4 293	3 716	7 299	3 707	4 352	4 591	3 986	4 284
Food preparation and service occupations.....	5 623	5 483	9 675	5 178	6 370	6 372	6 360	4 886	4 471	4 471	—	—	5 129	4 847	5 695	—
Health service occupations.....	4 940	4 894	5 067	4 503	3 812	3 577	4 231	4 686	3 662	3 529	4 002	3 314	3 891	3 280	4 574	3 799
Cleaning and building service occupations, except household.....	6 080	6 144	5 404	6 497	5 174	5 212	4 400	3 803	3 887	4 097	2 408	—	5 402	5 269	4 823	5 961
Personal service occupations.....	3 017	2 508	7 836	705	5 105	5 139	3 387	—	2 443	2 443	—	—	4 526	7 166	—	8 585
Farming, forestry, and fishing occupations.....	7 810	7 849	7 644	7 704	6 572	6 557	6 670	6 764	9 066	8 948	10 161	7 932	6 251	6 330	5 892	6 173
Precision production, craft, and repair occupations.....	8 321	8 060	8 619	9 320	8 881	8 745	11 546	5 505	9 090	8 938	9 912	6 662	9 653	10 831	—	5 005
Mechanics and repairers.....	8 355	8 289	8 619	9 386	8 911	8 911	—	—	11 323	11 545	7 337	1 205	13 551	17 019	—	—
Automobile mechanics and repairers.....	6 233	6 284	3 461	—	10 742	10 742	—	—	8 972	8 629	10 798	6 997	3 783	3 783	—	—
Supervisors, mechanics, including body.....	9 099	7 609	12 214	—	11 081	6 697	—	—	7 122	7 122	—	—	2 870	125	—	5 005
Industrial machinery repairers.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Electronic equipment, communications and industrial equipment.....	8 512	9 383	1 105	—	3 050	—	—	—	—	—	—	—	3 205	3 205	—	—
Heating, air conditioning, and refrigeration mechanics.....	11 719	18 005	7 948	—	7 685	7 685	—	—	—	—	—	—	—	—	—	—
Other mechanics and repairers.....	8 400	8 623	7 207	9 291	8 758	8 933	3 936	5 505	7 023	6 957	9 025	—	6 569	6 569	—	—
Construction trades.....	6 117	6 113	—	—	5 641	5 504	7 005	—	5 719	5 589	8 005	19 005	4 232	4 157	—	—
Supervisors, construction occupations.....	8 402	8 402	—	8 866	4 473	4 473	—	—	9 508	9 508	—	19 005	9 400	9 400	—	—
Carpenters.....	5 497	5 497	—	11 805	1 754	1 754	—	—	10 138	10 138	—	—	6 885	6 885	—	—
Electricians.....	8 892	8 892	—	—	—	—	—	—	3 983	2 451	8 005	—	1 363	1 363	—	—
Painters, construction and maintenance.....	3 241	3 241	—	8 005	3 130	3 130	—	—	7 783	7 783	—	—	4 109	4 109	—	—
Plumbers, pipefitters, and steamfitters.....	4 109	4 109	—	4 685	8 060	8 512	—	—	6 393	6 393	—	—	4 769	4 769	—	—
Other construction trades.....	5 733	5 705	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	General merchandise stores			Food, bakery, and dairy stores			Automotive dealers and gasoline stations			Apparel and accessory stores		
	Race			Race			Race			Race		
	Total	White	Black	Total	White	Black	Total	White	Black	Total	White	Black
United States												
Precision production, craft, and repair occupations—Con.												
Extraction occupations	4 978	2 705	5 205	4 814	3 805	5 655	9 229	9 161	11 473	6 236	6 311	5 892
Precision production occupations	7 826	7 854	7 786	6 557	6 542	6 638	6 769	6 542	6 417	8 001	8 007	8 176
Supervisors, production occupations	8 817	8 864	8 822	8 153	10 036	8 723	9 440	9 861	11 877	10 018	10 418	8 007
Precision metalworking occupations	5 777	5 944	4 602	4 623	4 933	3 485	8 400	6 915	14 005	6 001	6 919	12 505
Tool and die makers	6 367	6 367	2 805	2 225	—	2 225	—	—	—	—	—	—
Mechanists	6 257	7 347	2 805	5 656	5 603	6 005	8 102	5 661	14 005	5 176	4 814	6 377
Sheet metal workers	5 005	5 005	—	—	—	—	—	—	—	—	—	—
Other precision metal workers	5 666	5 713	4 852	3 903	3 903	—	9 537	9 537	—	9 457	9 022	12 505
Precision textile, apparel, and furnishings machine workers	6 234	6 172	6 184	4 944	4 635	9 805	5 740	5 893	—	5 558	5 542	5 485
Precision food production occupations	6 377	6 173	7 057	6 048	6 013	6 272	6 414	5 272	—	9 926	9 926	—
Precision inspectors, testers, and related workers	9 954	11 366	6 938	5 205	5 205	—	9 311	9 340	7 258	—	—	—
Plant and system operators	10 209	10 209	—	11 203	11 203	—	4 616	4 616	—	9 285	9 285	—
Other precision production occupations	7 513	7 089	14 630	8 784	8 784	—	5 949	5 949	—	10 644	9 386	8 071
Operators, fabricators, and laborers	5 122	5 051	5 345	6 248	6 265	6 260	4 367	4 291	5 376	4 817	4 482	5 307
Machine operators, assemblers, and inspectors	6 080	5 981	6 205	5 926	5 478	6 799	8 641	8 907	7 966	5 160	5 283	5 908
Machine operators and tenders, except precision	5 995	5 895	6 121	5 569	6 221	7 224	8 578	8 968	6 232	5 257	5 100	5 100
Metalworking and plastic working machine operators	6 431	3 029	10 550	8 826	8 826	—	5 777	5 777	—	6 145	3 778	8 138
Fabricating machine operators, n.e.c.	805	805	—	1 335	1 335	—	—	—	—	6 775	6 775	—
Metal and plastic processing and woodworking machine operators	6 819	7 373	5 304	4 320	6 680	2 432	11 005	11 005	—	5 098	4 111	6 358
Printing machine operators	6 451	6 191	7 236	8 988	8 893	9 125	12 505	10 624	10 888	3 696	3 753	3 680
Textile machine operators	3 557	3 434	3 722	8 819	6 598	13 261	—	11 040	14 876	8 127	9 282	1 005
Textile sewing machine operators	5 856	5 716	5 584	7 255	7 255	—	3 439	4 608	—	5 421	5 394	5 942
Laundry and dry cleaning machine operators	5 751	4 469	3 362	7 837	18 005	6 164	3 738	5 005	3 579	3 330	2 228	5 974
Packaging and filling machine operators	4 834	5 180	4 316	8 256	7 635	10 217	6 585	6 585	—	4 665	4 643	4 837
Furnace, kiln, and oven operators, except food	—	—	—	3 591	3 591	—	—	—	—	7 441	7 441	—
Other specified machine operators	5 897	5 803	6 996	4 963	5 050	4 955	8 573	8 249	3 005	5 211	4 344	5 389
Miscellaneous and not specified machine operators	6 236	6 291	5 863	6 068	5 971	7 484	5 841	9 670	9 233	4 526	5 169	7 571
Fabricators, assemblers, and hand working occupations	5 461	5 412	5 861	6 236	4 427	5 541	5 253	9 050	9 572	5 067	5 374	4 459
Welders and cutters	17 595	17 595	—	7 155	7 479	6 182	—	7 160	4 502	12 005	12 005	—
Solders and brazers	—	—	—	—	—	—	—	—	—	—	—	—
Assemblers	5 651	5 592	5 415	5 600	5 326	7 102	10 253	9 333	11 552	6 017	6 663	4 985
Hand working occupations	5 253	5 206	6 453	4 231	4 169	5 020	2 567	9 627	6 605	2 642	2 750	3 005
Production inspectors, testers, samplers, and weighers	7 215	7 244	6 675	5 566	5 596	6 301	7 714	7 326	8 333	5 634	5 645	5 094
Grocers and sorters, except agricultural	4 508	4 320	5 077	5 017	5 065	5 483	2 714	5 774	—	4 460	5 148	1 969
Other production inspectors, testers, samplers, and weighers	8 245	8 346	7 388	8 571	8 279	12 738	—	7 623	8 333	6 189	5 810	7 828
Transportation and material moving occupations	7 482	7 656	7 251	7 555	7 889	6 862	7 841	4 921	6 352	6 604	7 484	3 625
Transportation occupations	7 091	7 611	5 542	5 549	7 763	6 463	7 115	4 875	6 417	6 744	8 776	4 851
Motor vehicle operators	6 936	7 435	5 542	4 235	7 774	6 463	7 115	4 883	6 417	7 874	8 776	4 851
Truck drivers	6 833	7 480	5 137	7 934	8 041	6 863	8 438	5 010	6 922	8 171	9 335	5 349
Over-the-road truck drivers	3 313	5 679	—	6 448	6 596	5 769	5 562	7 326	6 638	7 734	8 333	2 005
Other motor vehicle operators	8 965	8 494	9 036	10 033	11 123	—	—	4 179	4 740	4 833	4 685	—
Rail and water transportation occupations	14 913	14 913	—	8 835	8 835	—	12 380	1 060	6 105	—	—	—
Material moving equipment operators	7 658	7 675	8 178	6 052	8 792	9 014	—	6 260	6 124	4 429	5 172	1 567
Supervisors, material moving equipment operators	—	—	—	—	—	—	—	7 260	3 492	1 445	1 445	—
Crane, hoist, and winch operators	—	—	—	2 691	2 691	—	—	6 128	4 005	—	—	—
Excavating, grading, and dozer machine operators	—	—	—	10 363	10 640	9 014	—	5 873	5 035	—	—	—
Other material moving equipment operators	7 461	7 441	8 178	6 052	—	—	12 380	6 804	—	4 574	5 424	1 567
Handlers, equipment cleaners, helpers, and laborers	4 811	4 748	5 021	6 263	6 287	6 189	6 239	4 011	4 750	4 142	3 979	4 595
Supervisors, handlers, equipment cleaners, and laborers	8 525	9 559	5 005	11 305	11 305	—	—	15 005	15 005	6 201	6 201	—
Helpers, craft and production	5 070	4 139	8 324	3 055	4 818	7 450	6 266	5 013	6 354	2 349	2 349	—
Construction laborers	5 129	5 129	—	5 575	5 575	—	—	—	—	3 742	3 742	—
Freight stock, and material handlers	4 306	4 281	4 335	5 171	5 181	5 155	5 204	4 591	15 791	3 547	3 376	4 424
Garage and service station occupations, and equipment cleaners	3 733	3 753	3 774	4 585	4 784	3 946	4 035	3 870	4 365	5 732	5 553	6 157
Hand packers and packagers	5 304	5 159	5 610	8 361	8 365	8 302	8 102	6 372	7 147	4 726	4 726	—
Laborers, except construction	6 384	6 568	5 854	6 176	6 247	5 309	7 679	5 077	4 595	5 089	4 877	5 929

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Eating and drinking places				Other retail trade				Finance, insurance, and real estate, total				Banking and credit agencies			
	Race			Spanish origin¹	Race			Spanish origin¹	Race			Spanish origin¹	Race			Spanish origin¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over	7 793	8 048	5 679	6 931	13 848	14 212	9 393	10 439	21 980	23 027	11 392	14 001	19 760	20 734	11 250	13 826
Managerial and professional specialty occupations	15 948	16 354	11 299	13 280	21 016	21 288	14 889	17 427	27 021	27 678	15 830	18 516	24 988	25 384	16 467	19 981
Executive, administrative, and managerial occupations	16 220	16 624	11 530	13 644	21 643	21 941	14 397	16 211	27 220	27 897	15 655	18 236	24 999	25 408	16 052	19 498
Officials and administrators, public administration	2 016	5 545	—	—	14 005	14 005	—	—	20 557	20 557	—	—	25 417	25 417	—	—
Financial managers	23 945	24 547	14 692	18 407	20 670	20 912	12 268	17 283	35 325	35 325	17 061	19 884	24 501	24 725	16 889	19 693
Managers, marketing, advertising, and public relations	23 844	24 183	15 445	16 646	21 070	21 240	16 645	16 250	31 866	32 284	19 528	25 421	28 966	29 262	19 944	22 218
Administrators, education and related fields	17 143	16 335	27 355	—	21 228	22 081	6 305	4 005	30 763	31 502	14 405	19 005	26 654	26 654	—	19 005
Managers, medicine and health	14 191	14 539	—	12 877	20 388	20 707	16 834	14 098	19 349	20 180	12 585	12 253	25 081	25 468	21 727	18 666
Other specified managers	16 117	16 508	11 534	13 591	22 323	22 604	14 102	16 682	34 866	35 367	18 839	22 805	30 045	30 567	17 516	21 086
Managers and administrators, n.e.c.	13 935	16 388	11 137	13 093	23 773	23 527	14 071	16 263	34 649	35 367	18 442	22 838	30 016	30 541	17 362	21 168
Skilled—	16 701	16 896	13 132	15 098	18 864	19 083	14 332	19 166	38 627	39 362	30 336	21 463	32 451	32 746	—	12 638
Other employed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Management related occupations	17 115	17 677	11 068	15 182	18 306	18 553	12 750	14 540	23 052	23 570	14 487	17 987	23 061	23 508	14 682	18 777
Accountants and auditors	20 554	21 174	11 924	15 127	17 949	18 347	10 856	15 651	19 190	19 769	13 189	16 535	18 045	18 604	12 440	17 399
Personnel, training, and labor relations specialists	14 171	14 518	10 626	13 420	18 807	19 342	10 960	10 409	23 462	24 192	15 958	15 648	20 053	20 661	15 025	13 515
Buyers and purchasing agents	16 828	17 348	8 159	15 429	18 129	18 302	13 637	15 215	19 586	20 136	12 519	17 986	16 346	16 617	10 601	14 684
Inspectors and compliance officers	12 133	13 309	4 633	18 981	19 393	19 393	7 805	25 005	16 938	17 192	13 656	15 941	18 145	18 513	13 275	16 200
Other management related occupations	22 557	23 774	15 786	35 562	21 001	20 729	25 047	9 410	24 814	25 216	15 748	19 013	24 349	24 692	15 764	19 553
Professional specialty occupations	10 204	10 520	8 140	8 328	19 589	19 783	15 886	20 544	24 982	25 408	17 650	22 152	24 801	24 943	22 208	26 167
Engineers, architects, and surveyors	20 449	20 756	14 742	21 150	20 764	20 786	19 947	20 643	21 834	22 091	15 901	22 844	23 539	23 980	19 505	26 159
Architects	22 549	23 759	13 848	—	21 664	21 749	13 005	24 205	23 384	24 251	14 299	23 872	23 300	23 734	15 847	31 005
Engineers	19 450	19 456	17 065	21 150	20 594	20 679	20 398	19 596	22 194	22 194	16 522	22 194	23 831	24 327	20 574	24 082
Civil engineers	18 096	18 031	20 905	—	20 172	20 172	—	—	22 889	22 949	20 445	23 570	28 739	28 528	45 005	19 719
Electrical and electronic engineers	9 985	9 985	—	14 405	19 968	19 967	23 038	22 304	24 634	25 000	13 357	15 005	24 438	24 255	—	15 005
Industrial engineers	20 658	20 658	—	—	21 060	21 072	18 505	19 352	19 083	19 352	14 541	17 523	17 103	17 531	14 678	16 281
Mechanical engineers	23 694	23 694	—	25 005	20 098	19 706	23 264	—	18 718	18 534	27 106	17 272	16 616	16 265	29 645	—
Other engineers	21 195	21 471	14 505	—	20 931	21 170	15 751	18 693	27 288	27 549	15 805	32 010	32 034	31 896	20 005	36 945
Surveyors and mapping scientists	—	—	—	—	16 288	16 288	—	—	15 041	15 041	—	—	9 525	9 525	—	—
Computer systems analysts and scientists	21 465	21 465	—	19 205	22 069	22 402	18 303	17 099	21 381	21 616	16 705	20 018	21 654	21 882	16 301	20 454
Operations and systems researchers and analysts	24 454	24 454	—	—	20 786	20 913	20 935	20 931	20 877	21 037	20 931	18 997	20 404	20 558	24 272	19 920
Mathematical scientists	19 105	19 105	—	—	17 317	16 682	11 005	25 285	26 918	27 487	15 930	16 677	22 681	23 120	23 293	19 720
Natural scientists	7 570	13 570	—	27 610	16 662	16 112	4 426	12 566	25 404	25 404	28 851	23 531	30 457	35 272	23 531	23 531
Chemists, except biochemists	7 735	7 735	—	—	21 759	18 466	11 505	—	20 561	20 100	15 005	—	13 589	13 391	15 005	—
Other natural scientists	19 891	19 891	—	27 610	15 187	15 547	5 469	12 566	28 207	27 749	33 952	23 531	37 228	36 346	53 005	23 531
Health diagnosing occupations	24 539	21 480	—	31 384	31 827	30 495	30 495	17 184	42 529	42 660	33 005	33 005	46 496	48 118	—	—
Health assessment and treating occupations	23 639	25 480	—	1 205	21 633	21 769	19 397	19 890	19 429	19 743	11 355	—	16 800	15 986	17 405	—
Registered nurses	14 005	14 005	—	—	20 818	20 856	—	—	22 055	22 295	17 405	—	15 629	15 320	17 405	—
Other health assessment and treating occupations	23 858	25 777	12 697	1 205	21 637	21 774	19 397	19 890	18 052	18 295	7 898	—	18 175	16 733	—	—
Teachers, except postsecondary	11 243	13 630	5 387	6 053	7 159	7 251	5 653	7 407	18 054	18 201	15 754	17 243	17 483	17 640	14 339	17 584
Social scientists and urban planners	30 047	31 238	—	—	25 931	26 354	17 965	14 012	29 357	29 357	27 984	31 106	30 887	30 386	35 422	35 081
Social and recreation workers	6 560	6 560	—	—	13 345	12 643	14 825	7 005	15 282	16 320	13 759	11 187	17 230	18 494	9 710	—
Lawyers and judges	33 564	34 141	27 264	51 005	38 232	38 232	—	30 005	34 358	34 697	22 187	30 474	34 128	34 413	21 872	37 638
Writers, artists, entertainers, and athletes	8 534	8 691	7 570	7 949	13 544	13 804	10 229	19 687	19 291	19 687	13 553	17 074	19 302	19 553	18 374	20 026
Other professional specialty occupations	12 476	11 886	18 005	—	18 290	18 755	13 879	4 755	17 331	18 411	6 406	20 683	15 368	15 513	14 532	24 345
Technical, sales, and administrative support occupations	8 882	9 347	5 975	6 989	13 445	13 717	9 594	10 250	21 739	22 590	11 567	14 994	12 712	13 377	9 503	10 265
Technicians and related support occupations	12 490	12 954	5 228	10 449	14 149	14 268	12 656	12 195	16 643	16 846	14 032	15 330	17 175	17 419	14 105	16 410
Health technologists and technicians	5 882	6 249	—	—	16 297	16 674	9 832	11 012	14 474	15 149	13 005	9 205	11 014	11 541	—	—
Licensed practical nurses	4 755	4 755	—	—	—	—	—	—	20 269	20 269	11 036	—	8 458	9 265	—	—
Other health technologists and technicians	5 920	6 305	—	—	16 297	16 674	9 832	11 012	15 310	15 878	13 005	9 205	12 096	12 096	—	—
Engineering and science technicians	11 392	12 073	2 590	10 163	13 318	13 486	11 247	11 694	16 344	16 901	12 347	13 922	16 766	17 544	13 581	15 014
Electrical and electronic technicians	12 490	13 840	3 395	13 790	13 099	13 248	10 674	10 489	16 486	16 782	16 308	17 699	16 144	16 346	15 996	19 903
Industrial and mechanical engineering technicians	6 957	7 664	2 289	13 957	16 721	16 721	—	18 140	18 261	18 261	9 335	12 052	19 781	19 781	—	—
Drafting and surveying technicians	10 944	10 962	—	9 380	13 313	13 445	14 723	12 411	13 712	14 081	9 335	12 052	16 371	18 496	12 117	9 395
Other engineering and science technicians	15 193	15 193	—	12 073	13 862	14 114	11 411	13 044	20 583	21 487	11 357	12 498	18 598	19 368	13 005	16 696
Technicians, except health, engineering, and science	13 631	13 903	8 130	12 755	14 640	14 697	13 911	12 804	16 700	16 858	14 437	15 680	23 369	22 747	14 186	16 657
Airplane pilots and navigators	15 977	15 977	—	—	19 542	19 542	—	—	22 218	22 132	10 005	31 005	23 336	27 462	17 462	31 005
Air traffic controllers and broadcast equipment operators	7 964	7 582	13 005	4 005	12 414	12 650	8 217	10 005	15 689	15 709	15 005	14 783	15 661	15 373	15 005	—
Computer programmers	16 761	16 761	—	19 005	15 920	15 895	17 124	15 521	16 774	16 850	15 725	17 005	17 256	17 406	14 732	16 821
Other technicians, except health, engineering, and science	12 867	13 590	2 172	—	13 237	13 337	10 531	11 412	16 294	16 620	11 110	12 917	16 680	17 243	12 107	14 676

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Eating and drinking places				Other retail trade				Finance, insurance, and real estate, total				Banking and credit agencies			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Technical, sales, and administrative support occupations—Con.																
Sales occupations	8 790	9 310	5 321	6 511	13 989	14 229	10 017	10 492	25 539	25 994	14 439	20 770	21 972	22 342	14 023	16 906
Supervisors and proprietors, sales occupations	16 143	16 433	13 165	11 975	18 387	18 580	14 292	14 702	35 047	35 454	17 340	24 201	23 994	23 379	11 761	24 598
Sales representatives, finance and business services	16 125	16 386	13 093	10 632	19 298	19 540	13 772	14 962	35 807	33 210	19 415	23 061	22 861	23 141	11 767	24 598
Self-employed	16 257	16 550	13 376	15 969	16 758	16 851	15 501	14 215	32 582	33 024	5 848	29 252	28 943	43 243	11 767	24 598
Sales representatives, merchandise except retail	25 499	25 970	26 005	6 765	16 529	17 193	8 628	15 189	25 440	27 787	14 533	20 880	22 790	23 053	15 888	18 483
Sales representatives, merchandise except retail	5 543	5 859	3 690	5 248	24 302	24 284	15 755	11 941	27 787	27 742	8 912	20 880	26 116	28 116	11 761	10 314
Sales representatives, retail and personal services	4 684	4 913	3 502	4 921	11 877	12 098	8 779	9 296	16 360	17 005	8 912	13 045	16 451	17 263	8 957	10 314
Cashiers	7 508	7 757	4 567	6 312	5 442	5 351	6 036	5 267	15 758	16 859	8 701	10 518	16 931	17 802	8 749	10 083
Other sales occupations, retail and personal services	12 557	15 328	4 415	21 605	16 798	17 156	7 105	6 973	15 356	15 521	10 980	16 278	11 724	11 906	10 200	11 441
Sales related occupations																
Administrative support occupations, including clerical	8 885	9 080	8 173	8 537	9 209	9 389	8 290	8 076	13 461	14 199	9 615	10 180	11 331	11 833	9 225	9 774
Supervisors, administrative support occupations	12 801	13 275	9 905	12 979	15 138	15 435	12 748	13 459	20 263	20 782	15 050	15 133	17 977	18 380	14 760	14 424
Computer equipment operators	13 615	13 133	14 766	14 605	12 770	12 815	13 321	12 382	12 878	13 306	11 018	11 874	11 954	13 353	10 102	11 529
Secretaries, stenographers, and typists	10 924	11 907	6 453	13 505	12 936	13 060	11 025	8 109	12 378	13 102	9 196	7 681	12 748	13 817	9 099	8 595
Secretaries	11 321	12 213	6 453	13 505	14 942	15 073	12 411	11 295	14 015	14 499	11 020	7 985	13 998	14 915	8 939	7 429
Stenographers and typists	4 524	5 023	—	—	7 488	7 211	9 968	5 228	7 745	7 745	7 552	7 370	8 949	8 160	9 208	5 518
Receptionists	6 148	8 863	—	—	7 848	8 203	4 540	1 975	8 288	7 721	11 901	3 373	9 491	7 217	14 234	5 954
Other information clerks	6 437	6 202	9 060	5 02	7 744	8 125	5 757	6 592	12 602	13 051	9 807	10 462	13 146	13 566	10 831	10 429
File clerks	13 265	19 315	6 005	6 005	5 225	5 637	3 942	6 272	6 266	6 272	5 955	6 290	6 880	6 745	6 358	8 132
Other records processing occupations, except financial	5 327	5 445	4 350	5 562	8 834	9 044	7 392	8 034	12 970	13 672	9 477	9 928	11 090	11 514	9 753	8 971
Bookkeepers, accounting, and auditing clerks	9 910	9 909	10 131	7 966	10 365	10 376	9 492	8 919	11 839	12 327	9 535	9 904	10 938	11 435	8 749	9 561
Payroll and timekeeping clerks	11 282	12 502	7 965	7 422	10 407	11 968	8 172	8 172	10 811	12 469	9 194	8 323	10 470	11 646	8 948	8 275
Other financial records processing occupations	10 669	10 651	14 557	10 871	10 719	11 316	4 926	7 203	10 318	11 035	8 126	7 663	8 725	9 289	7 703	7 474
Telephone operators	3 340	2 024	1 925	2 865	7 850	8 066	5 375	6 934	8 933	9 336	8 126	—	11 519	13 705	6 917	7 198
Mail and message distributing occupations	5 533	5 322	7 516	5 321	5 701	5 423	7 894	5 221	7 038	7 117	10 053	6 679	7 047	7 003	7 315	7 198
Production coordinators and expeditors	5 356	5 531	4 205	10 961	10 152	10 256	8 825	7 980	13 262	14 384	10 053	11 096	11 936	12 800	10 495	11 140
Traffic, shipping, and receiving clerks	6 977	9 735	4 723	8 917	8 354	8 519	8 999	7 757	8 894	8 976	8 546	8 990	8 921	9 105	8 354	9 285
Stock and inventory clerks	7 112	6 406	8 693	8 435	6 140	6 101	6 496	6 843	8 978	9 063	9 634	9 770	8 359	8 423	8 318	9 332
Other material recording, scheduling, and distributing clerks	6 665	6 462	8 500	4 276	12 277	12 537	10 533	10 267	11 869	12 365	7 577	7 365	13 393	14 290	6 134	14 763
Adjusters and investigators	15 135	15 356	7 528	10 676	13 200	13 618	9 358	9 395	16 334	16 681	12 520	12 993	13 643	13 794	12 575	11 560
Data-entry keyers	7 215	7 215	6 957	3 305	8 910	9 144	9 086	9 209	9 985	10 033	9 865	10 026	9 110	9 342	7 936	8 906
Other administrative support occupations	8 605	9 115	—	10 137	8 673	8 895	6 505	7 219	9 960	10 451	7 921	8 640	9 258	9 598	7 936	8 580
Service occupations	5 149	5 063	4 657	5 845	6 628	6 693	6 418	6 722	8 752	8 858	8 483	8 965	9 441	9 562	9 309	8 758
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	5 175	5 036	5 307	6 054	9 207	9 538	8 360	7 546	9 718	9 832	9 515	8 817	10 682	10 904	10 040	9 752
Guards	5 054	4 987	4 666	6 054	8 545	8 717	8 311	6 914	9 400	9 453	9 417	8 781	10 418	10 591	9 941	9 756
Other protective service occupations	21 876	31 005	25 155	—	16 409	17 120	11 553	17 505	15 403	16 129	11 686	11 553	17 246	17 925	13 508	9 005
Service occupations, except protective and household	5 149	5 063	4 654	5 845	6 210	6 236	6 073	6 630	8 534	8 616	8 295	8 984	8 569	8 498	8 946	8 095
Food preparation and service occupation	5 168	5 080	4 654	5 868	6 865	7 206	6 073	6 719	8 314	8 095	7 230	7 068	10 685	13 505	8 546	8 545
Health service occupations	7 599	7 628	6 596	5 848	7 477	7 453	9 440	7 832	10 500	11 345	9 555	9 205	7 854	8 895	9 599	8 545
Cleaning and building service occupations, except household	4 657	4 583	4 514	5 404	5 876	5 798	6 062	6 517	8 494	8 996	8 372	8 996	8 415	8 239	9 031	8 048
Personal service occupations	5 203	5 293	4 412	4 416	8 180	8 247	7 159	8 460	9 239	9 833	7 359	9 480	12 596	17 958	4 924	4 005
Farming, forestry, and fishing occupations	6 519	6 460	6 339	7 329	7 542	7 815	5 674	5 837	7 764	7 941	7 162	6 983	6 746	7 109	5 623	9 368
Precision production, craft, and repair occupations	10 380	10 649	8 924	9 097	12 780	12 964	10 266	10 990	13 216	13 720	10 924	10 762	16 180	16 598	12 208	15 412
Mechanics and repairers	11 794	11 918	11 337	10 571	11 718	11 814	10 767	10 291	12 047	12 272	10 494	12 335	14 210	14 384	12 266	15 616
Supervisors, mechanics and repairers	16 956	16 754	19 430	20 005	15 566	15 700	10 667	12 111	15 296	16 160	10 109	12 320	17 640	17 406	12 693	—
Automobile mechanics, including body	11 658	12 284	355	7 105	12 284	11 606	5 563	6 679	12 595	12 694	11 758	13 071	11 209	11 219	11 148	—
Industrial machinery repairers	10 855	10 933	10 821	10 816	12 913	13 005	11 809	8 879	11 115	11 128	10 797	11 418	13 485	13 774	9 102	16 041
Electronic repairers, communications and industrial equipment	12 668	8 259	45 005	—	11 058	11 179	8 796	10 310	12 782	12 848	8 115	19 245	12 743	13 017	10 005	12 870
Heating, air conditioning, and refrigeration mechanics	13 892	14 381	18 005	12 135	14 646	14 818	10 022	10 802	13 637	13 728	12 578	13 426	14 382	14 099	14 997	12 870
Other mechanics and repairers	11 092	11 330	9 388	9 519	11 298	11 363	10 029	10 387	11 481	11 720	9 914	12 170	14 757	14 974	13 045	15 803
Construction trades	10 619	10 775	9 912	8 069	12 337	12 504	10 302	10 752	12 039	12 385	10 134	9 075	16 005	16 557	8 830	10 689
Supervisors, construction occupations	21 606	21 989	9 043	16 548	17 307	17 643	9 959	13 865	19 354	20 240	12 546	15 031	19 639	19 829	16 191	18 837
Carpenters	8 449	8 679	6 609	4 403	11 396	11 547	8 843	9 374	10 370	11 199	8 653	8 466	14 335	15 060	7 330	4 342
Electricians	10 960	11 063	9 778	12 770	9 261	9 350	13 350	10 942	15 679	15 912	14 771	12 681	18 921	18 796	24 588	12 874
Painters, construction and maintenance	6 959	6 632	10 647	6 670	9 661	9 362	8 723	8 692	8 334	8 334	8 577	7 194	10 743	11 791	6 171	11 005
Plumbers, pipefitters, and steamfitters	14 800	13 801	13 994	11 275	12 899	12 676	10 401	12 953	11 562	11 685	12 142	9 058	13 071	15 749	11 338	14 157
Other construction trades	8 848	8 061	14 416	—	12 520	12 676	10 697	11 027	10 346	10 373	10 530	11 570	12 941	13 522	6 755	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Eating and drinking places				Other retail trade				Finance, insurance, and real estate, total				Banking and credit agencies			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extrusive occupations	7 797	10 048	8 279	—	14 904	17 902	5 436	16 791	19 406	19 714	17 005	23 005	18 257	18 257	18 257	—
Precision production occupations	12 893	12 473	12 473	8 945	14 531	14 891	10 465	11 727	17 783	18 397	13 966	17 005	18 257	18 257	18 257	18 756
Supervisors, production occupations	11 933	11 960	12 338	10 712	12 440	12 724	12 465	13 415	20 733	20 749	13 837	16 374	19 602	20 419	13 011	19 433
Precision metalworking occupations	—	—	—	11 172	14 405	13 905	12 538	11 497	12 894	12 894	6 684	1 061	10 170	10 856	4 505	8 363
Tool and die makers	—	—	—	—	14 405	13 905	12 538	11 497	12 894	12 894	6 684	1 061	10 170	10 856	4 505	8 363
Machinists	8 533	8 359	10 005	—	12 009	13 157	11 543	11 443	9 409	9 705	6 083	7 192	9 071	9 585	4 505	8 363
Sheet metal workers	18 041	19 802	16 005	10 005	12 009	13 157	11 543	11 443	9 409	9 705	6 083	7 192	9 071	9 585	4 505	8 363
Other precision metal workers	13 587	13 144	16 005	12 005	12 248	12 541	10 129	12 547	13 244	13 643	9 440	13 378	18 550	18 550	—	—
Precision textile, apparel, and furnishings machine workers	9 403	9 403	—	—	9 437	9 625	6 101	9 289	12 710	10 605	17 124	16 355	15 005	15 005	—	—
Precision food production occupations	7 624	7 800	6 579	8 262	12 416	13 121	6 813	8 360	12 370	16 342	16 436	16 333	22 973	22 983	22 984	—
Precision inspectors, testers, and related workers	12 887	15 005	9 005	—	15 931	17 534	9 395	15 698	15 259	17 624	7 344	16 085	16 467	16 467	13 005	—
Plant and system operators	11 126	13 082	4 447	15 321	17 274	17 527	12 728	15 698	16 296	16 724	13 673	13 427	16 985	16 985	15 767	18 457
Other precision production occupations	7 680	8 944	—	305	13 307	13 448	9 185	12 273	16 137	19 070	8 399	28 755	15 525	15 525	—	28 755
Operators, fabricators, and laborers	6 517	6 568	6 302	6 616	8 548	8 673	7 968	7 703	10 250	10 668	8 914	9 611	9 808	10 118	8 892	9 134
Machine operators, assemblers, and inspectors	5 962	6 251	4 840	4 925	9 289	9 524	8 265	8 730	12 315	12 969	10 152	11 659	11 880	12 588	10 057	12 463
Machine operators and tenders, except precision	5 620	5 724	4 807	4 533	9 710	10 031	8 368	8 678	12 246	12 844	10 405	11 810	12 358	13 059	10 376	12 626
Metalworking and plastic working machine operators	7 509	7 681	—	8 297	9 220	9 895	10 989	8 378	10 549	14 308	2 051	9 138	7 211	7 465	4 618	10 087
Fabricating machine operators, n.e.c.	—	—	—	—	11 735	13 010	7 476	13 005	10 405	10 405	—	—	—	—	—	—
Metal and plastic processing and woodworking machine operators	12 215	5 784	—	—	9 321	9 695	7 175	8 235	10 650	9 930	11 373	9 552	15 524	13 495	17 718	18 205
Printing machine operators	8 423	4 495	30 685	—	10 485	10 934	8 183	6 589	11 311	11 737	9 841	11 732	10 767	15 729	9 729	11 191
Textile machine operators	5 392	5 392	—	8 305	7 077	7 778	6 405	7 920	19 450	21 413	9 522	11 191	15 796	15 796	—	—
Textile sewing machine operators	—	—	—	—	8 186	7 787	9 409	7 163	18 005	18 005	—	—	—	—	—	—
Laundry and dry cleaning machine operators	3 478	3 416	148	3 480	7 490	6 644	9 071	7 463	7 063	6 673	7 052	11 685	9 593	9 593	—	—
Packaging and filling machine operators	8 652	6 789	12 005	—	6 809	6 648	6 359	3 395	25 698	25 698	14 732	14 276	10 630	10 398	—	16 148
Printer, kiln, and oven operators, except food	4 759	5 543	—	4 252	12 448	14 565	7 304	8 394	13 464	12 739	10 689	11 670	12 591	12 591	9 928	—
Other specified machine operators	5 019	4 995	4 867	4 270	9 361	9 852	7 304	8 790	11 501	11 592	10 689	10 557	15 707	18 079	11 506	14 284
Miscellaneous and not specified machine operators	5 765	6 172	4 684	4 270	10 110	10 380	9 354	9 038	13 840	15 702	9 049	10 557	15 707	18 079	11 506	14 284
Fabricators, assemblers, and hand working occupations	6 351	7 229	4 246	5 110	8 436	8 565	7 779	8 894	11 591	12 524	8 689	9 903	11 499	12 405	9 874	15 124
Welders and cutters	8 313	10 455	—	1 963	12 069	12 420	11 020	10 043	13 105	14 752	2 317	8 082	14 486	14 486	9 715	17 268
Solders and brazers	—	—	—	—	10 723	10 638	—	9 213	10 493	12 485	9 715	—	10 693	12 485	9 715	—
Assemblers	5 403	6 098	2 938	3 205	7 914	8 047	7 106	8 245	11 768	12 278	10 123	12 317	11 294	11 948	10 448	8 695
Hand working occupations	6 478	6 701	5 772	10 285	7 904	7 952	7 142	10 718	8 911	9 001	8 258	12 058	9 506	9 838	9 103	—
Production inspectors, testers, samplers, and weighers	10 524	12 056	8 135	9 813	9 770	10 040	9 077	8 501	13 316	14 061	8 846	13 594	8 492	8 756	8 291	7 843
Graders and sorters, except agricultural	826	1 341	105	—	8 195	8 332	7 593	7 788	7 758	7 323	6 894	10 457	6 489	6 198	6 848	7 843
Other production inspectors, testers, samplers, and weighers	11 665	13 128	9 960	9 813	11 678	12 074	11 152	9 660	14 953	15 396	10 613	18 393	12 466	12 593	12 678	—
Transportation and material moving occupations	7 228	7 218	7 615	7 734	10 081	10 273	8 871	8 839	10 717	11 210	9 273	9 371	9 221	9 438	8 631	8 995
Transportation occupations	7 173	7 161	7 577	7 734	9 957	10 134	8 828	8 601	10 274	10 702	9 223	9 371	9 221	9 438	8 631	8 995
Motor vehicle operators	7 161	7 147	7 577	7 734	9 957	10 134	8 828	8 601	10 274	10 702	9 223	9 371	9 221	9 438	8 631	8 995
Truck drivers	6 664	6 575	7 696	7 603	9 627	9 782	8 768	8 310	11 610	12 364	9 342	8 876	9 078	9 220	8 500	8 421
Driver-sales workers	11 173	11 399	8 237	9 811	11 794	11 905	9 669	10 570	12 139	13 158	6 033	4 505	10 631	11 497	8 265	8 559
Other motor vehicle operators	6 354	6 501	6 324	7 030	11 528	11 861	8 869	10 333	8 390	8 611	9 122	9 200	7 476	7 206	6 111	8 287
Rail and water transportation occupations	14 618	14 618	—	—	11 733	11 733	—	—	23 077	23 332	19 005	20 115	20 115	20 500	19 005	—
Material moving equipment operators	11 291	13 094	8 236	6 765	11 416	11 841	—	10 780	12 555	13 111	9 600	11 991	12 555	12 558	9 748	17 820
Supervisors, material moving equipment operators	10 276	10 276	—	—	14 218	14 252	13 609	12 847	15 420	15 940	10 525	13 604	13 604	14 502	10 525	—
Crane, hoist and winch operators	10 224	10 224	—	—	15 149	14 972	11 878	18 293	15 623	13 687	16 778	30 425	16 439	3 215	165	30 425
Excavating, grading, and dozer machine operators	13 058	13 058	—	—	15 647	16 218	11 890	3 739	12 064	12 380	8 403	13 364	8 621	8 621	—	—
Other material moving equipment operators	11 328	14 024	8 236	6 765	10 284	10 652	8 809	10 435	12 360	13 455	8 077	9 880	12 591	12 863	10 276	12 778
Handlers, equipment cleaners, helpers, and laborers	5 116	5 046	5 263	5 219	5 915	5 832	6 515	5 783	8 557	8 797	7 821	8 728	7 449	7 416	7 475	5 931
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	12 312	12 312	—	—	13 405	13 405	—	4 274	14 917	16 003	10 845	—	19 129	19 651	15 005	—
Helpers, craft and production	5 984	6 546	2 666	10 141	5 405	5 273	6 264	4 274	7 046	6 837	8 523	7 621	19 129	19 651	15 005	—
Construction laborers	9 737	10 240	5 412	7 667	9 675	10 072	7 747	4 416	10 830	11 433	8 172	9 414	13 688	13 688	11 852	635
Freight, stock, and material handlers	4 771	4 709	5 412	4 385	4 471	4 316	5 543	4 416	6 983	6 667	7 885	7 989	4 577	4 577	4 501	3 670
Garage and service station occupations, and equipment cleaners	4 039	3 971	3 862	4 094	6 651	6 716	6 213	6 227	7 791	7 759	8 253	7 418	5 792	4 350	7 803	5 644
Hand packers and packagers	5 508	4 648	5 880	7 933	6 384	6 349	7 181	7 377	6 616	6 561	7 924	5 445	6 536	6 351	7 930	—
Laborers, except construction	5 110	5 084	4 964	4 697	7 434	7 457	7 433	7 036	8 489	8 743	7 659	8 885	7 470	7 369	7 318	6 117

¹Persons of Spanish origin may be of any race.

Table 2. **Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:**
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Eating and drinking places				Other retail trade				Finance, insurance, and real estate, total				Banking and credit agencies			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over																
Managerial and professional specialty occupations	3 999	3 972	4 007	4 031	5 791	5 758	6 278	5 668	8 900	8 968	8 218	8 192	8 420	8 461	8 002	8 044
Executive, administrative, and managerial occupations	8 198	8 192	7 640	8 068	8 632	8 590	9 241	8 248	12 171	12 123	11 513	11 185	12 560	12 613	11 755	11 931
Officials and administrators, public administration	8 262	8 258	7 698	8 055	9 735	9 740	9 849	8 515	12 077	12 123	11 460	11 105	12 509	12 568	11 679	11 887
Financial managers	10 245	10 245	9 201	10 245	11 195	11 228	9 530	7 263	6 733	6 547	10 925	11 063	8 075	8 075	—	—
Managers, marketing, advertising, and public relations	12 437	12 537	9 201	11 005	11 195	11 228	9 530	7 263	13 402	13 446	12 635	12 063	13 227	13 582	12 027	12 027
Administrators, education and related fields	11 775	11 800	12 449	8 458	10 261	10 273	10 853	8 886	17 162	17 338	12 163	16 505	14 577	15 104	10 264	17 294
Managers, medicine and health	9 702	10 604	—	23 005	12 335	12 150	15 605	—	11 696	11 502	16 005	10 005	13 885	13 573	22 005	10 005
Other specified managers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers and administrators, n.e.c.	8 569	8 668	7 290	7 004	11 381	11 395	11 190	9 625	8 879	8 859	9 259	7 659	14 909	14 927	14 577	12 874
Salaries	8 212	8 204	7 699	8 024	9 494	9 511	9 042	8 228	13 430	13 487	12 664	12 342	13 091	13 091	11 805	13 268
Self-employed	8 370	8 367	7 838	7 797	10 337	10 373	8 984	8 840	13 576	13 639	12 665	12 535	13 018	13 110	11 805	13 299
Management related occupations	7 754	7 725	7 097	8 513	6 283	6 231	9 475	5 402	9 248	9 299	8 175	5 889	8 178	8 312	—	5 110
Accountants and auditors	8 481	8 486	7 416	8 870	9 483	9 441	10 389	8 912	11 896	11 933	11 315	11 396	11 931	11 971	11 226	11 426
Personnel, training, and labor relations specialists	9 502	9 462	7 416	11 168	9 344	9 229	10 036	7 494	10 925	10 901	10 610	10 489	10 756	10 746	10 403	10 479
Buyers and purchasing agents	9 402	9 462	7 416	11 168	11 155	11 068	9 863	9 472	12 925	12 903	13 091	12 968	12 837	12 828	12 707	12 210
Inspectors and compliance officers	9 086	9 372	7 416	5 562	9 929	9 268	10 269	9 431	11 421	11 439	10 946	11 258	11 314	11 278	10 707	12 481
Other management related occupations	8 184	8 361	2 535	7 005	8 055	8 323	8 119	5 403	10 447	10 524	9 873	13 424	13 823	13 160	16 107	20 005
Professional specialty occupations	8 788	9 400	—	7 005	8 604	8 499	9 434	—	12 190	12 190	11 420	11 507	12 155	12 195	11 331	11 568
Engineers, architects, and surveyors	6 808	6 762	6 530	8 418	7 210	7 112	8 263	9 944	13 153	13 219	11 933	12 263	13 416	13 381	13 001	12 853
Architects	7 626	8 163	—	17 995	11 088	11 070	11 880	29 031	13 251	13 484	13 523	9 016	13 632	14 217	9 962	—
Engineers	6 753	12 577	—	17 995	10 678	11 040	9 115	34 187	13 371	13 331	13 523	9 016	14 320	14 245	9 962	—
Electrical and electronic engineers	6 508	5 508	—	—	11 349	11 139	20 745	10 125	13 271	13 345	—	—	13 565	14 146	—	—
Industrial engineers	2 289	2 289	—	—	1 489	1 489	—	—	13 271	13 345	—	—	13 565	14 146	—	—
Mechanical engineers	16 005	16 005	—	—	14 364	13 010	20 745	10 125	12 765	12 560	—	—	11 797	12 468	9 962	—
Other engineers	5 748	5 748	—	—	11 706	11 759	—	—	12 557	12 612	12 335	8 732	11 797	12 468	9 962	—
Surveyors and mapping scientists	12 505	12 505	—	—	30 594	30 594	—	—	14 533	14 499	21 005	—	16 981	16 981	—	—
Computer systems analysts and scientists	—	—	—	—	9 812	9 812	—	—	14 533	14 499	21 005	—	16 981	16 981	—	—
Operations and systems researchers and analysts	16 706	16 706	—	—	5 655	5 655	—	—	13 780	13 780	—	—	15 325	15 325	—	—
Mathematical scientists	20 005	20 005	—	—	15 736	15 736	—	—	16 657	16 790	15 510	17 516	16 901	17 044	15 664	17 258
Natural scientists	8 923	8 923	—	—	12 609	12 985	—	—	15 052	15 011	14 852	13 802	14 658	14 638	13 525	13 874
Chemists, except biochemists	6 559	7 430	5 410	—	6 275	6 831	5 566	10 626	13 633	13 799	12 494	11 668	12 173	12 437	11 795	10 890
Other natural scientists	5 228	1 505	6 159	—	8 512	8 705	5 005	16 369	12 632	11 070	15 382	9 005	11 115	10 508	16 859	—
Health diagnosing occupations	6 858	7 838	5 023	—	6 583	6 417	5 735	16 369	12 632	11 070	15 382	9 005	11 115	10 508	16 859	—
Health assessment and treating occupations	12 005	—	—	—	9 920	9 909	8 005	7 921	15 116	14 264	14 080	9 005	11 473	10 569	23 005	—
Registered nurses	10 086	10 537	6 624	—	11 436	11 165	12 884	16 369	15 116	14 264	14 080	9 005	11 473	10 569	23 005	—
Other health assessment and treating occupations	9 439	10 194	—	—	11 531	11 371	10 813	16 005	11 208	10 918	12 282	17 249	11 712	11 710	12 811	9 020
Other health assessment and treating occupations	10 137	10 568	6 624	—	11 434	11 160	13 007	11 812	9 426	9 356	9 513	11 005	9 877	9 210	13 632	—
Teachers, except postsecondary	6 084	6 375	6 839	6 914	3 938	3 877	7 802	4 591	11 178	10 601	15 145	5 064	11 343	11 109	15 727	10 005
Social scientists and urban planners	12 756	12 879	4 135	—	12 444	12 387	12 736	11 449	14 094	13 971	14 077	15 598	13 982	13 493	13 547	10 005
Social and recreation workers	6 759	5 688	5 575	9 922	5 597	5 661	5 191	8 864	8 864	9 157	8 416	7 628	8 208	6 667	6 080	4 309
Lawyers and judges	16 375	16 375	—	—	17 799	17 799	—	—	16 421	16 589	15 088	10 668	17 264	17 234	21 354	10 292
Writers, artists, entertainers, and athletes	6 095	6 025	6 729	8 069	6 340	6 341	5 959	6 389	11 258	11 355	10 012	9 132	11 388	11 426	10 794	10 661
Other professional specialty occupations	10 409	6 023	—	—	7 711	8 010	6 855	3 255	11 738	11 955	10 695	11 102	11 888	11 484	13 781	6 005
Technical, sales, and administrative support occupations	3 842	3 955	3 070	3 430	5 356	5 317	6 045	5 365	8 376	8 411	7 990	7 898	7 572	7 560	7 601	7 494
Technicians and related support occupations	9 002	9 318	5 977	7 319	8 556	8 534	8 818	7 733	10 869	10 813	9 091	10 047	11 812	11 709	11 969	11 197
Health technologists and technicians	8 122	8 531	6 108	9 938	5 999	5 936	6 681	5 355	8 954	8 864	9 489	12 459	9 885	9 874	9 843	13 114
Licensed practical nurses	5 768	8 951	2 849	—	5 002	6 867	8 980	8 005	7 501	7 132	9 282	10 188	9 782	9 792	9 624	8 605
Other health technologists and technicians	9 506	8 336	9 196	17 165	6 164	6 213	4 457	5 039	10 733	10 917	9 899	15 531	9 618	9 945	10 376	21 005
Engineering and science technicians	8 851	9 412	4 005	—	7 699	7 642	8 153	6 544	10 116	10 098	11 031	8 535	10 179	10 722	10 924	7 225
Electrical and electronic technicians	8 877	8 877	—	—	8 964	8 629	7 139	5 298	9 914	9 776	11 009	7 889	11 122	10 969	13 398	7 225
Industrial and mechanical engineering technicians	—	—	—	—	11 952	11 952	—	—	9 651	9 651	14 055	13 705	10 727	10 727	14 055	13 705
Drafting and surveying technicians	6 594	7 223	—	—	6 992	6 282	6 005	4 651	9 746	9 846	9 727	9 718	9 327	9 809	7 338	9 705
Other engineering and science technicians	10 070	10 735	4 005	—	7 953	7 749	9 045	18 205	10 610	10 644	11 577	7 090	11 037	10 969	11 797	1 565
Technicians, except health, engineering, and science	9 559	9 553	8 705	3 172	10 176	10 166	10 766	9 874	11 003	10 939	11 208	10 215	11 075	11 861	12 164	11 678
Airplane pilots and navigators	—	—	—	—	15 042	15 042	—	—	9 255	9 255	—	—	10 908	10 005	—	—
Air traffic controllers and broadcast equipment operators	5 005	5 005	—	—	9 207	9 207	—	—	7 985	8 115	8 411	9 242	7 862	7 792	8 179	—
Computer programmers	12 116	12 270	8 705	6 765	11 565	11 593	10 905	8 948	12 900	12 960	12 172	12 260	13 552	12 936	13 352	13 760
Other technicians, except health, engineering, and science	7 684	7 684	—	605	8 113	8 083	10 005	8 186	9 484	9 412	10 231	8 928	9 866	9 611	10 971	8 998

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Eating and drinking places				Other retail trade				Finance, insurance, and real estate, total				Banking and credit agencies			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Technical, sales, and administrative support occupations—Con.																
Sales occupations	3 161	3 194	2 868	2 982	4 811	4 770	5 464	4 880	11 064	11 117	9 426	10 365	8 823	8 950	7 874	7 528
Supervisors and proprietors, sales occupations	8 291	8 079	10 324	6 348	7 892	7 876	8 690	7 747	15 778	15 982	12 551	12 055	12 289	12 392	10 579	15 794
Salaries	8 535	8 294	10 744	6 309	7 920	7 880	8 744	8 323	15 045	15 254	12 551	12 055	12 289	12 392	10 579	15 794
Self-employed	7 747	7 593	9 405	6 463	7 581	7 553	8 693	7 469	20 768	20 744	9 808	11 008	10 776	10 826	10 229	10 537
Sales representatives, finance and business services	9 686	9 601	10 559	1 503	7 581	7 553	8 693	7 469	20 768	20 744	9 808	11 008	10 776	10 826	10 229	10 537
Sales representatives, commodities, except retail	—	—	—	—	5 030	4 704	8 005	—	6 796	7 796	—	—	3 255	3 255	—	—
Sales workers, retail and personal services	2 984	3 004	2 748	2 918	4 350	4 295	5 175	4 580	7 684	7 787	7 011	6 517	7 749	7 749	6 996	6 269
Cashiers	2 983	3 011	2 724	2 905	4 350	4 295	5 175	4 580	7 684	7 787	7 011	6 517	7 749	7 749	6 996	6 269
Other sales occupations, retail and personal services	2 987	2 952	3 246	3 109	4 416	4 367	5 304	4 201	7 815	7 888	7 462	6 543	7 767	7 767	7 038	6 227
Other sales occupations, retail and personal services	4 989	5 282	—	—	3 626	3 579	4 004	1 728	6 628	6 699	2 236	7 004	5 905	5 983	2 236	11 005
Administrative support occupations, including clerical	6 446	6 499	5 301	6 470	6 521	6 494	7 072	6 420	7 753	7 738	7 812	7 584	7 511	7 497	7 558	7 473
Supervisors, administrative support occupations	9 223	9 305	7 850	7 850	9 153	9 093	9 533	8 184	11 896	11 893	11 907	11 267	11 370	11 315	11 724	11 002
Computer equipment operators	8 428	8 575	7 032	7 625	7 872	7 872	7 741	7 387	8 456	8 456	8 696	8 212	8 283	8 283	8 785	8 080
Secretaries, stenographers, and typists	7 256	7 290	6 886	6 446	7 155	7 120	7 887	6 019	7 792	7 789	7 792	7 851	8 444	8 444	7 724	8 488
Secretaries	7 374	7 387	6 886	6 446	7 155	7 120	7 887	6 019	7 792	7 789	7 792	7 851	8 444	8 444	7 724	8 488
Stenographers and typists	4 461	4 685	3 732	3 126	4 927	4 927	6 316	4 341	6 068	6 043	6 789	6 163	8 771	8 762	8 505	8 948
Receptionists	4 423	4 536	3 411	4 984	5 255	5 258	5 290	4 997	5 974	5 947	6 444	5 352	6 405	6 398	6 651	6 956
Other information clerks	3 232	3 259	3 643	1 255	5 201	5 083	5 685	5 235	7 736	7 794	8 193	7 764	8 025	7 978	7 252	8 076
File clerks	4 031	4 612	1 985	3 937	4 424	4 295	5 382	4 446	5 032	4 925	5 454	4 926	4 994	4 874	5 300	5 154
Other records processing occupations, except financial	2 931	3 101	1 613	3 849	5 870	5 759	6 965	5 603	8 264	8 264	8 234	7 804	8 043	8 028	8 355	8 342
Bookkeepers, accounting, and auditing clerks	6 762	6 724	6 946	6 414	7 776	7 670	8 344	7 934	9 915	9 897	9 934	8 686	7 482	7 458	7 643	7 188
Payroll and timekeeping clerks	6 543	6 492	7 553	7 020	8 149	8 103	8 360	8 376	9 121	9 189	8 804	8 959	8 800	8 771	8 978	9 780
Other financial records processing occupations	6 168	6 859	7 984	6 579	6 080	6 007	6 723	5 694	7 462	7 480	6 723	6 747	6 516	6 433	7 746	6 350
Telephone operators	4 309	4 775	1 303	3 149	6 008	5 982	6 326	6 257	6 917	6 919	6 711	7 119	6 763	6 728	7 008	6 305
Mail and message distributing occupations	3 864	4 020	2 398	4 526	5 107	4 906	6 472	5 262	5 567	5 546	5 676	6 024	5 468	5 404	5 768	5 968
Production coordinators and expeditors	3 272	3 456	2 233	2 612	5 303	5 203	7 942	5 675	8 671	8 613	8 681	8 631	8 278	8 194	8 283	8 018
Traffic, shipping, and receiving clerks	6 077	7 545	6 716	6 112	6 149	6 173	6 197	6 013	7 576	7 576	7 239	7 379	7 268	7 339	7 143	6 986
Stock and inventory clerks	5 511	5 008	8 555	8 760	5 651	5 651	5 603	6 013	7 656	7 791	6 826	8 014	7 943	8 193	7 769	7 997
Other material recording, scheduling, and distributing clerks	4 007	4 304	2 539	4 953	6 570	6 437	8 091	5 113	7 553	7 501	8 315	7 097	6 972	6 972	11 681	5 685
Adjusters and investigators	5 238	5 290	5 563	2 712	7 164	7 083	7 939	6 807	9 412	9 412	9 268	8 998	8 669	8 697	8 329	8 407
Data-entry keyers	7 588	7 244	9 195	6 142	7 068	6 865	8 164	7 462	7 782	7 782	7 950	8 432	7 467	7 214	7 804	8 719
Other administrative support occupations	5 568	5 652	4 505	6 547	5 617	5 578	6 022	5 770	6 965	6 965	7 249	6 921	6 854	6 822	7 095	6 844
Service occupations	3 572	3 515	3 959	3 710	4 610	4 598	4 624	4 666	4 835	4 778	4 943	4 908	4 939	4 938	4 930	4 384
Private household occupations	4 877	4 376	6 587	2 586	6 272	6 195	6 661	5 244	6 687	6 371	7 317	8 000	8 703	8 472	9 031	9 106
Protective service occupations	4 920	4 416	6 587	2 586	6 080	6 033	6 242	5 512	6 666	6 279	7 599	8 399	8 649	8 381	9 031	9 208
Guards	3 005	3 005	3 957	3 710	4 571	4 562	4 573	1 395	7 074	8 073	1 729	4 838	9 858	9 858	—	8 005
Other protective service occupations	3 571	3 515	3 957	3 710	4 571	4 562	4 573	1 395	7 074	8 073	1 729	4 838	9 858	9 858	—	8 005
Food preparation and service occupation	3 576	3 520	3 967	3 722	4 448	4 365	5 168	4 027	5 678	5 698	5 822	4 932	4 701	4 702	4 729	4 083
Health service occupations	4 336	4 477	3 799	2 791	5 432	5 439	5 079	5 118	5 840	5 982	5 935	2 669	6 947	6 290	6 293	5 512
Cleaning and building service occupations, except household	3 127	3 006	3 469	2 865	3 293	3 273	4 012	4 080	4 549	4 447	4 720	4 864	4 222	4 202	4 269	6 452
Personal service occupations	3 367	3 307	3 757	2 865	3 365	3 354	4 465	4 486	5 070	5 178	4 720	5 133	5 558	5 418	6 211	6 210
Farming, forestry, and fishing occupations	2 433	2 519	694	5 505	4 233	4 218	3 692	5 298	4 941	5 026	4 507	5 606	7 731	6 945	10 991	7 580
Precision production, craft, and repair occupations	5 479	5 331	5 893	6 206	6 884	6 882	7 155	6 933	10 239	10 326	9 543	9 902	10 925	10 999	9 103	12 671
Mechanics and repairers	5 815	6 167	4 907	3 468	6 538	6 594	5 837	6 494	10 639	10 549	9 550	12 783	11 954	11 761	10 786	13 134
Supervisors, mechanics and repairers	6 126	6 905	6 617	658	8 301	8 365	—	—	14 187	14 242	10 005	9 005	11 958	12 615	10 005	—
Automobile mechanics, including body	860	923	—	—	5 088	5 276	—	5 679	8 465	8 465	—	—	11 958	12 615	10 005	—
Industrial machinery repairers	5 243	4 816	6 737	4 195	7 409	7 308	7 663	—	9 639	9 593	8 405	17 482	9 517	8 841	8 405	13 225
Electronic repairers, communications and industrial equipment	—	—	—	—	6 657	6 883	3 003	8 010	8 568	7 828	13 505	—	9 084	8 137	13 505	—
Heating, air conditioning, and refrigeration mechanics	7 451	8 191	2 191	6 187	9 926	10 548	1 005	6 872	6 872	6 872	9 304	—	12 657	12 741	11 318	13 088
Other mechanics and repairers	3 715	3 346	6 581	12 005	5 113	5 080	5 277	6 304	7 045	7 005	7 699	7 141	9 028	9 338	7 231	9 025
Construction trades	3 782	3 782	4 729	18 005	5 737	7 114	2 470	10 005	13 403	13 333	25 048	8 942	12 123	12 028	3 679	13 132
Supervisors, construction occupations	3 712	3 596	—	—	5 737	7 114	2 470	10 005	13 403	13 333	25 048	8 942	12 123	12 028	3 679	13 132
Carpenters	18 005	—	—	—	5 737	7 114	2 470	10 005	13 403	13 333	25 048	8 942	12 123	12 028	3 679	13 132
Electricians	2 270	1 784	185	12 005	3 563	3 536	—	6 334	7 429	6 826	6 168	—	3 384	4 314	6 168	—
Painters, construction and maintenance	—	—	—	—	5 661	5 596	—	6 672	4 946	4 769	8 112	6 672	3 505	3 505	—	—
Plumbers, pipefitters, and steamfitters	—	—	—	—	5 661	5 596	—	6 672	4 946	4 769	8 112	6 672	3 505	3 505	—	—
Other construction trades	3 485	3 485	—	—	5 640	5 394	10 016	5 508	4 939	3 986	8 081	4 005	5 391	7 005	10 980	4 005

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Eating and drinking places			Other retail trade			Finance, insurance, and real estate, total			Banking and credit agencies		
	Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹	Race		Spanish origin ¹
	Total	White		Total	White		Total	White		Total	White	
Precision production, craft, and repair occupations—Con.												
Extraction occupations	5 566	5 414	6 356	2 705	2 705	—	9 596	9 596	—	6 405	6 405	—
Precision production occupations	6 337	6 163	6 529	7 005	7 005	6 972	11 553	11 485	10 089	11 032	8 807	13 103
Supervisors, production occupations	3 782	3 467	6 529	9 004	8 998	8 732	12 114	12 206	11 417	11 571	11 681	13 459
Precision metalworking occupations	2 736	2 094	—	9 550	9 550	6 654	11 492	12 635	5 005	9 329	10 279	—
Tool and die makers	—	—	—	8 130	7 566	—	12 705	12 705	—	—	—	—
Machinists	—	—	—	8 251	8 251	12 923	7 764	7 764	5 005	7 024	6 927	—
Sheet metal workers	—	—	—	8 251	8 251	—	22 130	22 130	—	16 505	16 505	—
Other precision metal workers	5 633	5 633	—	5 470	5 455	6 114	13 796	18 205	8 505	8 505	8 505	—
Precision textile, apparel, and furnishings machine workers	8 682	8 278	18 005	4 737	4 646	5 652	7 197	7 743	5 031	9 404	9 005	—
Precision food production occupations	4 436	4 266	6 023	5 285	5 283	4 666	6 205	5 934	3 159	6 452	6 005	10 005
Precision inspectors, testers, and related workers	925	925	925	4 849	3 401	—	10 191	10 191	—	9 844	9 844	—
Plant and system operators	8 005	—	—	8 872	11 031	—	8 041	6 126	—	5 770	5 334	10 705
Other precision production occupations	1 267	1 267	—	7 658	7 664	6 962	7 941	8 362	7 773	6 912	7 963	9 815
Operators, fabricators, and laborers	4 248	4 192	5 120	5 008	4 806	5 136	7 387	7 351	6 421	7 555	7 450	7 082
Machine operators, assemblers, and inspectors	4 210	4 220	4 133	5 102	5 029	5 500	7 753	7 769	6 688	7 596	7 669	7 371
Machine operators and tenders, except precision	4 087	4 002	4 386	5 018	4 968	5 366	7 740	7 812	7 458	7 562	7 277	8 034
Metalworking and plastic working machine operators	3 438	3 135	4 422	9 816	9 816	17 487	6 896	6 502	11 685	6 630	6 436	13 005
Fabricating machine operators, n e c	8 005	8 005	—	7 776	7 770	335	12 687	16 475	—	—	—	—
Metal and plastic processing and woodworking machine operators	3 020	2 859	—	6 502	6 286	7 075	9 460	9 506	11 536	9 726	10 371	16 005
Printing machine operators	5 020	5 257	2 405	6 992	6 913	7 814	8 448	8 563	8 144	7 672	7 847	7 579
Textile machine operators	3 730	3 730	—	3 436	2 923	5 791	9 975	9 938	9 048	10 667	10 667	—
Textile sewing machine operators	4 873	6 821	5	4 970	4 942	4 681	7 147	7 147	—	9 046	9 535	15 005
Laundries and dry cleaning machine operators	3 582	3 414	3 729	4 136	3 590	4 721	4 806	5 644	2 307	6 928	6 928	—
Packaging and filling machine operators	3 669	4 783	3 852	4 489	4 469	6 734	6 734	6 734	—	5 050	5 050	—
Furnace, kiln, and oven operators, except food	5 482	5 482	7 005	7 507	7 549	13 765	9 527	9 527	—	—	—	—
Other specified machine operators	4 610	4 500	1 105	5 034	5 023	5 471	7 436	7 366	8 020	7 670	8 006	9 448
Miscellaneous and not specified machine operators	4 340	4 219	4 951	4 594	4 557	4 880	7 540	7 583	7 037	7 303	7 225	6 916
Fabricators, assemblers, and hand working occupations	4 514	4 816	4 624	5 093	4 971	5 830	8 062	8 226	4 128	8 917	9 760	2 005
Welders and cutters	—	—	—	8 727	8 901	5 896	6 743	6 789	6 024	6 957	7 094	6 024
Solders and brazers	—	—	—	5 461	5 532	5 005	7 887	7 887	—	5 235	5 235	—
Assemblers	3 982	3 998	3 348	5 128	4 963	6 170	8 491	8 930	4 128	12 176	14 306	7 152
Hand working occupations	5 319	5 908	3 112	4 579	4 740	3 179	7 792	7 422	—	7 781	7 963	2 005
Production inspectors, testers, samplers, and weighers	5 019	5 453	4 305	5 620	5 599	5 608	7 581	6 778	4 758	7 489	6 807	4 738
Graders and sorters, except agricultural	3 525	3 244	6 245	4 343	4 410	3 305	6 466	5 973	4 041	7 091	6 540	4 236
Other production inspectors, testers, samplers, and weighers	5 483	6 558	4 305	7 259	6 933	8 147	8 957	7 936	6 672	9 114	8 010	8 005
Transportation and material moving occupations	4 910	4 927	4 806	5 077	4 956	6 806	6 838	6 941	6 329	7 138	7 082	8 993
Transportation occupations	4 929	4 955	6 080	4 922	4 806	6 716	5 652	5 346	5 759	5 228	4 505	8 925
Motor vehicle operators	4 941	4 969	6 080	4 917	4 803	6 719	5 509	5 348	5 759	5 478	4 450	7 555
Truck drivers	4 507	4 548	6 042	4 331	4 153	7 068	5 584	5 827	5 683	5 192	4 724	7 555
Driver-sales workers	7 356	7 355	6 343	5 376	5 280	6 794	6 531	1 205	—	—	—	—
Other motor vehicle operators	3 999	4 018	6 855	6 775	7 478	6 005	5 354	4 766	6 205	4 633	6 851	—
Rail and water transportation occupations	651	—	—	6 531	6 636	6 005	8 893	5 285	8 858	5 285	14 705	—
Material moving equipment operators	4 056	3 234	5 698	7 625	7 677	7 441	9 008	9 008	11 005	8 558	8 714	11 005
Supervisors, material moving equipment operators	—	—	—	9 857	9 857	6 319	12 681	13 522	—	10 505	12 005	7 805
Crane, hoist and winch operators	6 555	6 555	—	11 345	14 905	—	10 041	10 041	—	8 605	8 605	—
Excavating, grading, and dozer machine operators	—	—	—	5 005	5 005	6 005	10 041	10 041	—	—	—	—
Other material moving equipment operators	5 410	5 010	5 698	7 488	7 501	7 441	8 352	8 698	11 005	8 387	8 645	11 005
handlers, equipment cleaners, helpers, and laborers	3 776	3 520	4 050	4 888	4 517	7 280	6 425	6 049	5 319	7 737	6 787	5 406
Supervisors, handlers, equipment cleaners, and laborers, n e c	5 744	5 350	8 105	5 986	5 986	—	11 312	11 652	—	9 532	9 608	8 905
Helpers, craft and production	4 097	4 292	4 302	3 209	2 696	8 270	7 620	7 205	555	9 331	10 335	555
Construction laborers	5 429	5 780	8 255	4 898	4 218	6 243	6 756	6 243	2 930	11 005	11 805	—
Freight, stock, and material handlers	3 453	3 373	3 810	4 898	4 048	13 616	8 194	6 493	2 930	9 005	6 121	2 930
Garage and service station occupations, and equipment cleaners	4 054	3 644	1 360	4 771	4 771	5 110	6 849	6 109	4 818	7 009	1 005	1 005
Hand packers and packagers	4 197	3 901	4 930	4 722	4 722	5 767	7 177	7 334	8 658	6 558	8 553	9 316
Laborers, except construction	3 234	2 951	4 199	4 889	4 821	5 210	5 387	5 293	5 575	6 397	6 500	8 645

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Insurance				Other finance and real estate				Business services				Automotive repair and services			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over	23 822	24 575	13 370	16 365	21 975	23 249	10 344	13 161	17 283	18 229	10 007	11 197	11 862	12 243	8 952	9 767
Managerial and professional specialty occupations	29 598	30 149	18 101	20 989	28 303	29 537	13 687	16 136	25 374	25 835	17 601	18 099	19 853	20 216	13 096	15 855
Executive, administrative, and managerial occupations	30 728	31 319	19 443	21 416	29 750	30 667	13 680	16 011	27 433	28 020	16 994	18 623	19 790	20 152	13 046	15 915
Officials and administrators, public administration	19 443	20 350	18 030	17 850	18 750	19 720	10 068	16 513	27 834	28 834	14 742	20 643	20 005	20 005	10 507	10 765
Financial managers	30 155	30 350	18 030	25 337	36 188	37 188	20 068	26 880	29 012	29 720	14 742	20 643	20 376	20 434	10 507	10 765
Managers, marketing, advertising, and public relations	31 672	32 117	18 433	25 337	33 976	33 945	26 772	26 880	31 095	31 355	2 543	24 896	23 063	25 084	10 507	10 765
Administrators, education and related fields	39 119	39 119	—	—	29 924	32 137	14 405	—	24 065	24 665	9 090	—	33 698	33 698	—	12 440
Managers, medicine and health	27 280	27 848	19 152	20 809	18 509	19 348	11 748	11 947	24 416	25 052	16 599	18 955	19 889	19 889	17 734	17 136
Other specified managers	35 198	35 597	21 938	25 316	39 316	40 687	16 343	23 034	30 045	30 676	18 323	20 097	19 672	20 637	12 665	15 983
Managers and administrators, n.e.c.	34 925	35 346	21 336	25 308	39 473	40 907	16 343	23 034	31 226	31 894	18 323	20 534	19 672	20 637	12 665	15 983
Self-employed	41 472	41 774	39 205	25 660	38 150	39 097	27 673	21 749	22 220	22 434	18 829	17 042	18 304	18 483	15 006	18 272
Management related occupations	20 646	21 217	15 011	14 258	26 619	27 501	14 070	16 828	22 803	23 340	14 956	16 278	17 209	17 661	13 256	16 354
Accountants and auditors	19 102	19 656	14 547	14 034	21 940	22 513	12 799	16 441	18 674	19 090	13 409	14 689	15 700	15 931	13 563	17 749
Personnel, training, and labor relations specialists	24 050	24 600	16 655	16 602	29 487	30 834	16 272	18 298	20 545	21 249	14 829	13 910	19 847	20 923	13 494	16 250
Buyers and purchasing agents	17 310	17 941	11 877	10 848	24 957	25 868	14 148	28 990	17 827	17 881	12 532	17 036	15 033	15 329	9 087	12 025
Inspectors and compliance officers	17 183	17 319	13 472	12 412	15 668	15 862	13 819	18 048	16 153	16 283	11 264	14 849	14 136	14 136	14 136	12 005
Other management related occupations	22 757	23 442	15 501	14 683	35 605	36 314	16 359	13 364	25 362	25 803	15 826	19 789	22 621	22 728	18 005	20 005
Professional specialty occupations	24 277	24 637	16 706	18 521	26 818	27 841	13 773	18 605	22 281	22 507	18 612	16 997	22 720	23 004	20 399	14 093
Engineers, architects, and surveyors	20 059	20 231	15 084	18 627	23 672	24 121	14 781	22 461	25 285	25 486	19 030	22 215	19 231	19 170	20 880	19 405
Architects	24 025	25 159	14 058	18 627	23 341	24 257	13 968	21 768	22 568	23 116	12 403	26 133	14 866	14 866	—	—
Engineers	19 925	20 075	15 203	18 627	25 161	25 333	15 763	23 392	25 376	25 574	19 298	21 964	19 737	19 690	20 880	19 405
Civil engineers	21 116	21 215	17 593	28 170	24 103	24 221	16 508	23 098	22 959	23 077	13 387	13 423	20 745	20 745	—	—
Electrical and electronic engineers	21 041	21 544	9 715	18 903	26 126	26 695	16 005	—	25 032	25 227	18 546	21 908	21 769	22 001	17 505	11 005
Industrial engineers	19 196	19 408	14 506	18 903	21 453	21 453	—	—	25 486	25 719	21 614	19 292	21 629	21 629	22 005	25 005
Mechanical engineers	18 091	18 091	—	14 064	20 106	20 106	—	—	25 427	25 689	18 223	21 110	16 969	16 969	22 005	—
Other engineers	23 599	23 756	28 005	—	28 424	28 987	11 238	26 722	25 641	25 834	19 711	23 045	20 992	20 992	—	—
Surveyors and mapping scientists	21 823	21 823	—	14 767	—	14 793	—	—	12 639	12 750	10 705	—	—	—	—	—
Computer systems analysts and scientists	20 982	21 246	16 491	19 194	22 668	22 804	20 716	21 549	23 288	23 483	21 340	21 253	20 650	20 699	19 245	19 744
Operations and systems researchers and analysts	20 769	21 009	16 719	17 273	22 977	23 472	19 219	19 145	23 619	23 967	18 031	21 685	20 547	20 547	—	—
Mathematical scientists	27 282	27 850	13 488	19 990	23 474	23 472	20 005	2 103	27 869	28 167	17 902	18 037	16 550	16 550	—	—
Natural scientists	15 095	14 740	21 005	—	26 423	26 532	19 005	—	24 019	24 231	18 786	18 223	8 486	8 486	—	—
Chemists, except biochemists	14 019	14 019	—	—	30 431	30 694	19 005	—	22 199	22 550	15 072	17 120	5 684	5 684	—	—
Other natural scientists	17 373	16 595	21 005	33 005	25 300	25 516	19 005	—	25 256	25 359	23 738	19 279	11 755	11 755	—	—
Health diagnosing occupations	41 678	41 656	33 005	—	43 076	43 076	—	—	40 564	41 213	6 755	—	—	—	—	—
Health assessment and treating occupations	21 081	21 782	4 505	—	16 280	16 445	14 005	—	17 804	18 050	15 516	17 087	17 005	17 005	—	—
Registered nurses	27 188	27 188	—	—	15 388	15 388	—	—	17 046	17 056	15 994	16 278	17 005	17 005	—	—
Other health assessment and treating occupations	18 422	19 064	4 505	—	16 567	16 818	14 005	—	18 869	19 316	13 347	19 732	—	—	—	—
Teachers, except postsecondary	19 913	20 158	13 368	—	17 337	17 282	19 051	14 005	18 655	19 554	10 946	15 880	15 208	15 700	—	11 449
Social scientists and urban planners	25 298	25 400	22 172	16 505	31 534	32 610	17 875	19 634	27 890	27 890	10 747	19 723	20 782	20 782	—	—
Social and recreation workers	21 881	20 939	29 414	—	12 849	13 315	12 538	11 887	14 238	15 644	10 196	10 547	13 655	13 655	—	—
Lawyers and judges	31 499	31 834	21 705	24 008	40 344	40 893	24 345	18 280	36 986	37 510	32 604	12 550	61 982	61 982	—	—
Writers, artists, entertainers, and athletes	19 507	19 818	13 552	14 752	18 985	19 685	8 975	13 797	18 881	19 047	18 315	14 471	17 550	18 044	—	3 396
Other professional specialty occupations	16 297	17 825	5 880	11 505	19 273	20 837	4 966	18 992	17 733	18 842	12 291	11 640	14 348	14 348	—	20 037
Technical, sales, and administrative support occupations	22 310	23 011	12 940	16 099	25 088	25 621	12 497	19 566	16 322	16 908	11 108	11 327	13 224	13 624	9 500	10 189
Technicians and related support occupations	15 992	16 105	14 586	16 035	17 193	17 555	13 253	13 023	16 746	16 992	13 732	13 524	14 386	14 286	13 491	9 118
Health technologists and technicians	15 627	16 433	13 005	9 205	17 213	17 213	—	—	15 653	15 647	12 264	12 695	255	255	—	—
Licensed practical nurses	16 160	17 214	13 005	9 205	17 213	17 213	—	—	16 390	16 456	14 717	16 285	—	—	—	—
Other health technologists and technicians	15 249	15 522	12 243	14 869	16 747	17 375	11 532	12 984	15 482	15 737	12 766	12 712	12 025	12 034	10 786	9 460
Engineering and science technicians	17 468	17 771	16 703	20 809	20 040	20 675	16 472	13 549	16 697	16 846	15 579	14 852	14 154	13 152	38 765	11 944
Electrical and electronic technicians	15 562	15 562	—	—	20 040	20 675	16 472	13 549	16 697	16 846	15 579	14 852	14 154	13 152	38 765	11 944
Industrial and mechanical engineering technicians	12 480	12 957	5 012	—	23 405	23 405	—	—	14 381	14 656	9 907	18 999	8 554	8 554	—	—
Drafting and surveying technicians	16 090	15 999	24 505	11 430	23 405	23 405	—	—	14 381	14 656	9 907	18 999	8 554	8 554	—	—
Other engineering and science technicians	24 047	24 138	14 812	16 237	17 309	17 601	14 064	13 044	17 786	18 031	14 620	14 673	15 523	15 523	18 179	8 267
Technicians, except health, engineering, and science	24 424	24 845	10 005	17 005	19 696	19 696	—	—	19 562	19 562	—	28 005	19 337	19 337	10 005	—
Airplane pilots and navigators	14 784	14 784	—	—	17 022	17 022	—	—	12 225	12 580	9 315	7 885	10 005	10 005	—	—
Air traffic controllers and broadcast equipment operators	16 088	16 165	15 655	17 490	18 749	18 559	20 742	7 005	17 826	18 080	15 452	15 760	18 153	18 250	—	8 805
Computer programmers	15 663	15 771	11 324	13 549	16 753	17 234	10 248	11 656	18 063	18 287	13 514	13 836	14 057	12 899	20 223	8 155
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Insurance				Other finance and real estate				Business services				Automotive repair and services			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations	24 635	25 214	14 394	18 779	26 577	26 899	14 559	23 162	20 917	21 176	16 254	14 053	14 036	14 578	8 810	10 956
Supervisors and proprietors, sales occupations	28 107	28 322	21 156	23 935	40 580	41 079	18 087	24 200	21 732	21 800	18 663	15 299	17 236	17 483	12 375	15 064
Soldiers	27 664	27 887	21 587	23 146	45 782	45 782	18 087	22 203	21 732	21 974	19 557	15 299	17 236	17 483	12 375	15 064
Self-employed, finance and business services	34 457	34 648	6 385	37 010	32 346	32 816	5 793	28 518	19 841	20 405	14 453	14 751	18 044	18 416	10 426	13 851
Sales representatives, commodities, except retail	24 637	25 219	14 377	18 764	26 330	26 636	14 773	23 292	21 184	21 485	15 402	14 749	15 469	15 765	10 538	12 410
Sales workers, retail and personal services	22 925	22 481	—	—	32 364	32 364	—	—	32 327	32 650	5 325	—	23 813	23 813	—	—
Cashiers	12 969	14 188	6 804	11 743	16 675	17 162	9 303	16 068	10 890	10 219	23 046	8 775	10 824	11 361	7 394	8 221
Other sales occupations, retail and personal services	13 519	16 933	5 064	13 593	13 521	14 300	10 950	9 511	10 524	11 302	10 082	2 193	7 183	7 180	7 924	8 618
Other sales occupations, retail and personal services	12 565	12 630	10 522	4 770	17 321	17 598	8 275	20 367	10 949	10 507	26 919	10 796	12 183	12 565	7 911	8 618
Sales related occupations	15 260	15 449	10 980	16 278	18 242	18 242	—	—	21 506	21 690	9 075	9 740	15 072	15 072	—	—
Administrative support occupations, including clerical	16 393	17 125	10 629	11 215	12 902	13 587	9 281	10 351	12 498	13 160	9 149	9 339	11 142	11 223	10 835	8 664
Supervisors, administrative support occupations	22 050	22 500	15 327	16 495	21 259	21 927	15 482	15 819	20 164	20 865	13 476	14 251	18 610	19 233	13 337	14 785
Computer equipment operators	14 408	14 801	12 802	11 812	13 087	13 237	6 311	8 269	13 010	13 431	11 022	10 988	11 053	11 209	11 130	5 717
Secretaries, stenographers, and typists	12 237	12 843	10 707	6 402	12 103	12 668	6 311	8 269	13 010	13 431	11 022	10 988	11 053	11 209	11 130	5 717
Secretaries	14 845	15 068	14 021	7 703	13 110	13 451	7 843	9 016	11 457	11 829	9 012	8 807	13 941	14 991	5 226	18 841
Stenographers and typists	8 886	7 134	7 073	5 181	8 095	8 625	4 760	6 869	11 118	11 378	6 300	6 057	13 602	15 964	5 226	18 841
Receptionists	8 973	8 704	10 365	2 182	7 245	7 375	7 375	2 785	6 304	6 300	6 057	4 633	10 252	10 252	—	—
Other information clerks	13 092	14 116	6 301	9 358	10 450	10 721	8 126	11 025	10 404	10 857	6 573	5 255	5 914	5 263	7 237	6 467
File clerks	5 903	5 899	6 065	5 157	6 161	6 520	4 876	5 511	7 008	7 326	6 286	6 798	7 980	8 221	1 147	8 590
Other records processing occupations, except financial	13 812	14 711	9 322	8 796	14 334	14 823	8 947	12 838	11 826	12 651	8 166	9 459	10 678	10 837	1 147	8 590
Bookkeepers, accounting, and auditing clerks	13 709	14 073	11 400	9 827	12 590	12 920	10 884	11 410	11 440	11 781	9 141	9 134	10 802	10 833	6 611	8 444
Payroll and timekeeping clerks	11 084	10 273	15 005	11 374	12 334	13 200	7 381	8 665	11 613	11 715	10 907	10 333	11 206	11 206	—	—
Other financial records processing occupations	12 273	12 625	10 061	9 051	12 843	13 200	5 974	4 150	8 323	8 694	8 871	9 051	14 567	14 567	15 005	7 065
Telephone operators	6 648	9 730	5 575	7 617	7 617	8 605	9 258	5 823	5 823	5 939	4 677	3 482	7 577	7 577	—	—
Mail and message distributing occupations	6 901	7 117	6 376	6 213	7 143	7 403	6 258	6 009	6 769	7 243	5 423	5 046	5 178	5 178	—	—
Production coordinators and expeditors	14 724	16 005	9 456	9 582	14 049	14 927	9 255	12 916	15 460	16 179	10 743	12 028	9 817	10 278	5 290	6 850
Traffic, shipping, and receiving clerks	9 511	9 581	9 894	9 114	8 114	8 205	6 156	8 524	9 227	9 262	9 062	9 117	12 048	10 477	24 984	7 141
Stock and inventory clerks	8 896	8 771	9 065	8 061	10 296	10 452	8 705	12 248	8 766	8 910	9 172	7 602	10 254	10 418	6 357	9 812
Other material recording, scheduling, and distributing clerks	10 875	12 055	4 445	7 335	11 088	11 089	11 089	4 656	11 267	11 427	10 959	9 988	12 294	11 967	13 551	12 476
Adjusters and investigators	17 184	17 508	12 643	14 077	15 954	16 531	12 940	11 314	14 607	14 607	11 558	10 603	10 603	10 802	10 989	10 989
Date-entry keyers	10 881	11 002	10 876	11 498	10 759	11 174	9 988	11 339	8 823	9 453	7 435	7 486	5 517	7 131	4 834	5 547
Other administrative support occupations	12 080	13 079	7 525	8 346	12 065	12 850	8 245	9 270	11 065	11 389	10 148	9 165	10 237	10 394	8 928	5 547
Service occupations	9 662	10 351	7 809	9 246	8 483	8 530	8 288	8 982	8 472	8 743	7 560	8 106	6 136	6 114	6 585	6 252
Private household occupations	11 729	12 257	8 717	12 065	8 478	8 376	9 073	7 858	8 115	8 274	7 383	7 413	7 782	8 126	6 663	6 816
Protective service occupations	10 749	11 230	8 242	12 065	8 215	8 065	9 001	7 771	7 897	8 034	7 465	7 330	7 782	8 126	6 663	6 816
Guards	7 215	7 435	14 235	8 986	13 288	14 001	10 328	12 165	8 756	9 005	11 214	9 907	7 965	9 965	—	—
Other protective service occupations	9 118	9 738	7 676	8 986	8 483	8 552	8 199	9 068	8 756	9 145	7 544	8 374	5 953	5 909	6 571	6 202
Food preparation and service occupations	9 088	10 145	6 023	7 148	6 277	6 729	5 574	5 773	8 240	9 074	5 801	6 686	8 289	8 328	7 834	12 476
Health service occupations	19 500	21 618	7 005	—	7 387	6 811	13 525	9 205	12 167	14 770	7 223	6 525	3 955	3 955	—	—
Health service occupations	8 817	9 286	7 005	9 328	8 485	8 529	8 273	9 070	8 714	9 084	7 563	8 688	5 688	5 688	6 225	5 642
Cleaning and building service occupations, except household	8 817	9 286	7 005	9 328	8 485	8 529	8 273	9 070	8 714	9 084	7 563	8 688	5 688	5 688	6 225	5 642
Personal service occupations	21 294	22 931	11 386	8 311	8 925	9 330	7 424	9 519	10 182	10 884	8 078	10 269	9 572	9 950	9 724	9 174
Farming, forestry, and fishing occupations	9 835	9 400	12 905	27 570	7 758	7 936	7 142	6 829	8 332	8 622	7 187	7 613	6 299	5 385	—	9 099
Precision production, craft, and repair occupations	17 338	17 738	12 057	14 010	12 335	12 780	10 770	9 967	15 374	15 671	12 258	12 617	11 817	12 057	9 519	10 305
Mechanics and repairers	15 464	15 691	12 616	12 142	11 215	11 392	10 180	11 661	15 192	15 445	12 396	12 667	11 777	12 011	9 505	10 257
Supervisors, mechanics and repairers	18 097	18 833	14 365	—	14 714	15 666	9 687	13 320	19 489	19 553	15 819	18 345	17 099	17 217	14 670	15 823
Automobile mechanics, including body	13 260	13 368	12 133	14 005	12 869	13 001	11 901	12 915	12 619	12 732	10 799	11 370	11 506	11 731	9 325	10 048
Industrial machinery repairers	14 653	14 667	15 381	3 005	10 132	9 951	10 739	10 854	13 724	14 083	10 902	11 608	11 866	12 151	8 099	9 038
Electronic repairers, communications and industrial equipment	24 437	24 437	15 005	—	9 224	8 956	6 765	19 245	13 634	13 941	9 593	12 308	11 608	10 934	17 072	16 326
Heating, air conditioning, and refrigeration mechanics	16 566	16 615	15 005	1 785	13 127	13 220	11 948	13 945	14 747	14 867	12 360	14 838	14 338	15 212	11 823	15 798
Other mechanics and repairers	14 917	15 207	10 627	14 996	10 487	10 886	9 608	10 886	15 604	15 604	13 160	12 571	13 081	13 356	10 517	10 593
Construction trades	14 857	15 405	9 146	11 841	11 605	12 092	10 196	8 901	13 655	13 927	11 053	11 759	11 763	12 246	9 910	10 066
Supervisors, construction occupations	18 147	19 843	4 195	12 852	19 379	20 303	12 852	14 899	19 615	19 812	16 239	14 182	17 903	20 730	2 105	8 041
Carpenters	13 832	13 943	8 005	14 395	10 296	10 690	8 708	8 634	12 483	12 930	6 933	13 698	10 355	10 584	10 943	10 943
Electricians	15 491	15 723	11 403	14 395	14 572	15 186	14 572	12 967	14 053	14 178	13 227	13 962	13 186	14 208	12 279	10 068
Painters, construction and maintenance	12 644	13 145	11 097	11 097	8 112	8 071	8 553	7 075	10 100	10 100	10 051	9 229	11 579	11 896	7 931	10 943
Plumbers, pipefitters, and steamfitters	16 496	17 054	14 752	10 005	11 302	11 229	12 380	9 043	15 557	15 746	12 941	13 897	12 416	12 651	11 990	11 772
Other construction trades	12 255	13 814	2 705	—	10 137	10 070	10 807	11 179	12 531	12 759	10 482	10 275	11 549	12 187	5 546	10 296

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Insurance				Other finance and real estate				Business services				Automotive repair and services			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extraction occupations	19 878	20 200	14 449	16 478	19 594	19 965	17 005	23 005	16 471	16 722	10 505	14 005	21 679	21 679	9 940	—
Precision production occupations	20 915	21 331	14 961	18 480	16 904	17 548	13 853	12 231	17 692	18 119	13 348	13 602	13 554	14 064	9 940	11 957
Supervisors, production occupations	12 921	12 838	—	10 005	19 876	20 526	17 074	14 723	18 993	19 457	13 610	15 030	16 716	17 639	10 855	13 429
Precision metalworking occupations	10 005	10 005	—	10 005	12 620	13 475	6 981	11 705	15 732	16 035	12 693	12 560	12 846	13 036	9 267	17 063
Tool and die makers	13 147	13 147	—	10 005	9 068	9 068	—	8 165	16 908	17 071	12 578	—	18 493	18 493	—	—
Machinists	24 693	25 362	—	10 005	13 181	13 147	6 513	10 005	15 615	15 959	13 120	12 273	12 659	12 904	9 005	16 613
Sheet metal workers	7 733	7 733	—	—	4 157	5 155	1 605	—	16 073	16 380	13 299	15 249	11 020	10 594	15 005	10 805
Other precision metal workers	11 415	11 415	—	—	13 368	13 819	9 640	—	15 332	16 332	8 199	12 210	14 767	13 898	8 085	27 565
Precision textile, apparel, and furnishings machine workers	14 308	14 803	4 805	4 685	13 460	8 053	17 124	15 005	11 597	15 338	7 996	8 090	11 774	11 551	9 183	10 051
Precision food production occupations	19 351	19 351	—	16 307	16 311	13 117	15 755	15 005	9 252	9 651	10 509	6 400	12 862	11 814	15 460	19 929
Precision systems, testers, and related workers	18 463	18 463	—	16 005	11 835	16 404	6 048	—	15 059	15 416	13 154	9 591	13 088	13 088	10 493	15 322
Plant and system operators	22 167	23 689	11 005	17 501	15 932	16 470	13 286	11 458	19 267	19 779	14 728	14 516	13 189	16 760	3 689	—
Other precision production occupations	10 808	11 265	9 073	9 095	10 285	10 724	8 893	9 833	10 522	10 955	8 379	8 776	8 149	8 354	7 478	7 553
Operators, fabricators, and laborers	11 872	12 360	9 949	10 002	12 930	13 722	10 300	12 203	11 489	11 829	9 408	9 439	10 911	11 233	9 313	9 966
Machine operators, assemblers, and inspectors	11 872	12 360	9 949	10 002	12 930	13 722	10 300	12 203	11 489	11 829	9 408	9 439	10 911	11 233	9 313	9 966
Machine operators and tenders, except precision	12 495	12 495	—	—	12 476	—	—	5 105	11 242	11 482	10 488	10 155	10 095	9 648	7 540	14 692
Metalworking and plastic working machine operators	10 405	10 405	—	—	—	—	—	—	11 214	10 596	18 505	11 239	15 392	15 294	13 005	20 005
Metal and plastic processing and woodworking machine operators	8 434	7 599	9 348	4 849	10 532	11 462	5 572	15 095	10 881	11 270	6 206	12 523	11 289	10 789	12 695	16 516
Printing machine operators	11 715	12 205	10 219	11 957	11 167	11 462	9 061	11 023	12 377	12 489	11 676	10 070	11 810	10 665	6 740	—
Textile machine operators	20 010	—	—	—	20 918	24 517	9 522	—	9 300	9 329	6 709	4 541	8 403	10 665	—	—
Textile sewing machine operators	18 005	18 005	—	—	—	—	—	—	11 752	11 752	—	12 708	10 155	10 155	—	—
Laundry and dry cleaning machine operators	10 272	5 955	—	11 685	6 371	6 673	5 132	—	9 580	10 266	7 998	4 623	6 027	10 487	1 998	—
Packaging and filling machine operators	5 955	5 955	—	—	30 819	30 819	—	—	15 189	15 819	12 136	6 132	12 618	14 360	—	13 394
Furnace, kiln, and oven operators, except food	12 967	13 787	6 821	22 172	13 628	12 767	14 948	13 655	15 189	15 819	12 136	9 757	4 618	6 049	1 478	3 948
Other specified machine operators	8 398	8 291	10 343	5 343	12 162	12 197	10 987	13 686	10 625	10 792	9 648	8 316	11 145	11 541	9 408	9 762
Miscellaneous and not specified machine operators	11 471	12 460	9 554	4 349	13 526	15 499	7 308	11 554	11 406	12 134	8 799	10 045	9 830	9 890	9 819	10 187
Fabricators, assemblers, and hand working occupations	11 206	11 593	—	—	11 681	12 765	8 272	9 224	11 598	11 891	8 504	9 945	10 848	11 095	9 283	9 731
Welders and others	16 221	20 546	—	—	12 693	14 398	2 935	6 412	13 507	13 967	10 299	11 045	11 738	11 264	10 335	10 033
Solders and brazers	—	—	—	—	—	—	—	—	8 816	8 816	—	—	7 137	7 870	—	8 580
Assemblers	9 344	9 344	—	—	8 071	13 660	9 939	12 709	9 041	9 392	7 913	8 131	10 487	10 864	8 235	9 962
Hand working occupations	15 147	15 147	—	—	8 071	7 841	7 702	12 058	11 924	12 097	8 303	10 509	10 111	11 190	10 848	1 240
Production inspectors, testers, samplers, and weighers	15 714	15 756	14 155	—	14 433	15 221	8 854	17 355	13 732	14 055	12 038	9 574	9 318	9 346	10 311	11 353
Graders and sorters, except agricultural	7 605	805	—	—	11 084	13 819	7 041	15 394	8 344	8 786	10 158	4 252	12 169	12 169	—	—
Other production inspectors, testers, samplers, and weighers	15 664	15 997	14 155	—	14 846	15 348	9 433	18 393	14 344	14 567	12 462	12 001	9 229	9 242	10 311	11 353
Transportation and material moving occupations	9 829	10 735	7 867	7 992	12 107	12 707	10 234	10 094	11 629	12 044	9 923	9 259	9 057	9 428	8 096	7 590
Transportation occupations	9 582	10 224	8 419	7 881	11 840	12 448	10 158	9 975	10 599	10 835	9 815	8 939	9 022	9 388	8 112	7 473
Motor vehicle operators	9 582	10 224	8 419	7 881	11 840	12 448	10 158	9 975	10 599	10 835	9 815	8 939	9 022	9 388	8 112	7 473
Truck drivers	9 502	10 015	9 536	6 235	12 923	13 536	10 282	10 005	10 530	10 720	10 039	8 974	9 009	9 369	8 122	7 454
Driver-sales workers	7 091	8 372	3 888	—	13 663	16 650	3 565	4 505	10 333	10 401	10 538	9 649	11 030	11 270	9 816	8 669
Other motor vehicle operators	10 007	10 729	7 435	11 401	9 418	9 248	10 132	10 488	10 626	11 086	8 785	8 603	6 898	6 785	7 476	8 005
Rail and water transportation occupations	—	—	—	—	23 649	23 649	—	—	17 196	17 879	8 477	—	14 846	16 225	6 465	20 005
Material moving equipment operators	11 171	13 334	4 962	10 005	12 685	13 206	10 513	10 473	15 522	15 661	14 170	10 684	11 420	11 492	6 465	14 498
Supervisors, material moving equipment operators	12 005	12 005	—	—	17 880	17 880	—	—	15 322	15 661	14 170	22 005	10 824	10 824	—	—
Crane, hoist, and winch operators	18 580	18 580	—	—	15 525	14 426	17 470	13 364	21 389	21 896	10 929	12 966	19 471	24 507	1 005	—
Excavating, grading, and dozer machine operators	10 138	12 428	4 962	10 005	12 010	12 359	8 403	9 006	15 397	16 003	12 068	12 670	10 719	10 719	—	9 119
Other material moving equipment operators	8 299	8 367	8 003	7 470	8 708	■ 993	7 861	9 099	7 698	8 094	5 897	7 427	10 811	11 133	6 926	18 444
Handlers, equipment cleaners, helpers, and laborers	17 807	17 807	—	—	10 981	11 566	9 886	7 750	16 022	16 804	6 331	9 005	14 933	14 933	7 155	5 846
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	9 220	9 220	—	9 005	6 810	6 592	8 316	7 500	6 848	6 808	8 014	5 831	5 896	5 741	—	—
Construction laborers	14 928	14 928	—	—	10 484	11 103	7 500	9 176	9 253	10 228	5 005	16 188	6 291	7 695	1 634	3 648
Freight, stock, and material handlers	6 633	6 616	9 330	8 461	8 230	7 792	8 928	9 911	7 121	7 762	5 361	6 389	6 398	6 230	6 102	6 102
Garage and service station occupations, and equipment cleaners	4 274	3 406	5 605	—	9 024	9 109	8 930	7 950	7 760	8 084	5 890	4 546	5 337	5 314	5 807	5 078
Hand packers and packagers	2 452	2 452	—	—	7 453	7 755	8 918	5 445	6 600	6 600	8 124	4 932	7 669	7 886	14 335	2 625
Laborers, except construction	8 250	8 108	7 219	6 858	8 579	■ 886	7 700	9 234	7 777	7 777	5 862	8 116	5 917	5 773	6 282	6 331

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Insurance				Other finance and real estate				Business services				Automotive repair and services			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over	9 103	9 154	8 643	8 435	9 549	9 656	7 830	8 259	7 887	8 033	6 748	6 757	6 704	6 726	6 367	6 616
Managerial and professional specialty occupations	13 156	13 233	12 350	12 238	10 639	10 672	10 141	8 890	11 166	11 163	10 697	10 366	10 888	10 919	10 944	11 392
Executive, administrative, and managerial occupations	13 039	13 128	12 207	12 018	10 573	10 596	10 214	8 846	11 476	11 464	11 306	10 074	10 899	10 960	10 238	11 662
Officials and administrators, public administration	7 755	7 755	7 755	7 755	6 261	5 960	9 925	9 451	16 495	16 495	9 416	—	—	—	—	—
Financial managers	15 826	15 808	14 053	17 092	16 267	16 452	12 801	9 451	14 652	14 870	9 416	14 784	15 397	16 032	1 487	13 005
Managers, marketing, advertising, and public relations	16 274	16 478	13 408	17 099	18 388	18 715	11 892	15 594	15 210	15 292	13 433	12 647	13 825	13 704	—	15 932
Administrators, education and related fields	14 957	15 694	10 005	—	8 092	7 727	—	—	11 848	12 116	10 363	8 505	—	—	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	16 009	16 246	15 012	12 594	8 176	8 138	8 510	7 115	14 109	14 128	13 781	10 809	13 542	12 854	22 573	23 849
Managers and administrators, n.e.c.	14 128	14 119	14 201	12 585	13 040	13 133	11 508	10 821	13 559	13 529	13 649	13 322	10 550	10 654	9 007	10 569
Self-employed	14 327	14 326	14 365	12 827	13 252	13 351	11 515	7 102	14 013	13 982	13 836	14 075	11 178	11 305	9 053	12 494
Managers and administrators, n.e.c.	7 049	7 075	3 945	—	10 286	10 358	11 287	7 294	10 063	10 113	10 749	7 061	7 488	7 537	8 392	3 845
Management-related occupations	11 523	11 592	10 933	11 218	12 575	12 475	13 380	11 529	9 230	9 127	9 995	9 416	10 768	10 698	11 150	10 318
Accountants and auditors	10 603	10 645	9 890	10 190	11 994	11 774	13 690	11 006	10 071	9 891	11 394	9 270	9 841	9 631	10 831	9 818
Personnel, training, and labor relations specialists	13 208	13 183	13 533	14 921	12 247	12 150	13 085	9 270	10 996	11 008	10 780	10 633	15 266	15 397	12 505	18 605
Buyers and purchasing agents	11 978	12 100	10 360	10 896	10 625	10 555	11 707	12 101	11 862	12 011	9 379	11 411	8 949	8 997	—	5 005
Inspectors and compliance officers	10 071	10 383	8 365	13 586	8 582	7 576	10 005	12 027	8 209	8 269	6 388	4 518	2 193	2 193	—	—
Other management related occupations	11 824	11 874	11 289	10 573	13 895	13 887	13 926	12 543	7 169	7 107	7 676	6 839	11 144	11 144	—	—
Professional specialty occupations	13 693	13 710	13 027	13 464	11 558	11 811	9 714	9 525	10 685	10 691	9 771	9 066	10 537	9 559	18 247	2 252
Engineers, architects, and surveyors	12 927	13 299	13 700	9 016	13 405	13 335	21 005	—	14 419	14 279	13 286	12 543	16 041	12 672	17 984	—
Architects	10 302	10 763	—	—	13 390	13 390	—	—	8 945	9 202	6 836	13 103	3 985	—	3 985	—
Engineers	13 081	13 452	13 700	11 005	13 484	13 316	21 005	—	14 981	14 867	14 003	13 103	17 715	12 672	21 317	—
Civil engineers	11 992	12 115	—	—	19 031	19 031	—	—	7 953	7 953	—	—	—	—	—	—
Electrical and electronic engineers	16 575	16 575	—	—	9 301	9 301	—	—	16 809	16 980	15 021	1 505	—	—	—	—
Industrial engineers	12 634	13 019	13 700	8 732	17 105	17 105	—	—	12 833	13 334	10 005	12 005	12 672	12 672	—	—
Mechanical engineers	16 848	16 848	—	—	—	—	—	—	13 234	12 458	—	—	—	—	—	—
Other engineers	14 664	14 664	—	—	13 287	12 997	21 005	—	15 736	15 506	14 493	14 877	21 317	—	21 317	—
Surveyors and mapping scientists	—	—	—	—	9 145	9 145	—	—	5 310	5 310	—	6 005	—	—	—	—
Computer systems analysts and scientists	16 409	16 424	16 183	18 460	17 482	18 825	11 074	12 505	17 283	17 323	17 400	16 161	14 298	14 298	—	—
Operations and systems researchers and analysts	15 256	15 213	15 299	13 737	15 779	15 644	14 766	—	15 330	15 512	14 168	11 182	—	—	—	—
Mathematical scientists	13 947	14 146	12 291	12 275	12 929	12 380	14 327	—	14 377	14 141	19 789	11 434	—	—	—	—
Natural scientists	12 327	11 048	18 965	9 005	11 592	11 592	9 338	—	13 329	13 406	11 791	9 582	6 605	6 605	—	—
Chemists, except biochemists	14 217	11 944	26 195	—	10 021	10 021	—	—	13 918	14 257	14 160	9 017	—	—	—	—
Other natural scientists	10 090	10 266	4 505	9 005	12 024	12 284	9 338	—	12 830	12 754	8 831	10 841	6 605	6 605	—	—
Health diagnosing occupations	14 517	12 789	9 147	17 130	9 342	9 342	—	—	16 382	19 377	8 705	24 490	—	—	—	—
Health assessment and treating occupations	10 909	10 583	13 748	21 572	11 137	11 094	6 029	—	8 958	9 068	8 025	9 536	4 922	4 922	—	—
Registered nurses	11 070	10 729	14 106	22 032	11 479	11 101	6 677	—	8 825	8 929	7 957	9 403	—	—	—	—
Other health assessment and treating occupations	9 106	8 874	10 887	11 005	10 104	11 073	3 146	—	11 086	11 066	10 831	16 672	12 305	12 305	—	—
Teachers, except postsecondary	13 888	13 441	16 934	5 005	8 432	7 077	13 778	1 005	9 141	9 538	7 173	8 756	6 505	6 505	—	—
Social scientists and urban planners	13 900	13 979	14 485	18 390	14 685	14 701	14 199	10 764	13 650	13 495	17 369	13 850	13 774	13 774	—	—
Social and recreation workers	11 432	12 402	8 511	4 992	8 521	8 433	8 507	9 958	8 209	8 153	9 278	6 567	—	—	—	—
Lawyers and judges	15 503	15 882	12 562	15 577	17 283	17 185	21 362	8 229	17 229	17 640	13 862	9 900	10 050	10 050	—	—
Writers, artists, entertainers, and athletes	12 313	12 567	9 643	9 006	10 040	10 091	8 211	7 953	9 585	9 552	9 125	7 660	8 692	8 576	—	2 252
Other professional specialty occupations	12 109	12 474	8 422	4 086	11 133	11 650	8 575	18 370	10 825	10 841	10 417	9 830	19 005	19 005	19 005	—
Technical, sales, and administrative support occupations	8 613	8 637	8 374	8 151	9 652	9 700	8 319	8 844	7 315	7 325	7 221	6 884	6 334	6 317	6 551	6 065
Technicians and related support occupations	11 205	11 252	10 895	9 588	10 454	9 302	9 592	9 538	9 888	9 914	9 317	8 360	9 474	9 069	11 222	24 525
Health technicians and technicians	8 433	8 233	9 373	14 119	10 471	10 845	9 172	9 505	7 138	7 004	7 440	7 218	10 320	13 035	7 605	—
Licensed practical nurses	6 544	6 220	9 096	15 005	8 160	7 315	9 172	9 505	6 714	6 502	7 327	7 088	10 320	13 035	7 605	—
Other health technicians and technicians	10 815	10 856	9 728	13 847	16 888	16 688	—	—	10 009	9 992	9 777	9 460	—	—	—	—
Engineering and science technicians	10 002	9 881	10 825	10 931	9 792	9 931	11 666	6 706	8 741	8 724	8 906	8 079	8 064	5 764	—	—
Electrical and electronic technicians	9 684	9 396	10 994	12 005	8 392	8 176	9 963	6 373	10 392	10 648	9 669	6 494	—	—	—	—
Industrial and mechanical engineering technicians	9 198	9 198	—	—	6 590	6 590	—	—	7 335	7 335	—	—	—	—	—	—
Drafting and surveying technicians	9 773	9 445	12 190	9 520	9 894	10 161	9 069	10 452	8 228	8 165	9 913	7 743	5 095	5 095	—	—
Other engineering and science technicians	10 474	10 554	12 594	12 594	10 649	10 611	16 295	4 859	8 733	8 729	8 502	8 724	5 965	5 965	—	—
Technicians, except health, engineering, and science	11 457	11 525	11 025	9 196	9 309	9 250	9 160	10 254	11 623	11 588	11 733	9 288	9 578	9 267	12 026	24 525
Airplane pilots and navigators	7 005	7 005	—	—	—	—	—	—	16 377	16 377	—	—	—	—	—	—
Air traffic controllers and broadcast equipment operators	9 980	10 125	9 585	10 895	7 998	7 576	9 275	9 242	12 778	12 758	7 688	5 916	7 169	7 169	15 805	—
Computer programmers	12 746	12 957	11 228	10 960	13 990	13 157	13 008	11 814	12 774	12 758	12 741	11 360	14 858	14 786	8 564	—
Other technicians, except health, engineering, and science	9 953	9 916	10 803	7 893	8 938	8 937	7 247	10 218	9 846	9 811	10 308	6 763	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Insurance				Other finance and real estate				Business services				Automotive repair and services			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Technical, sales, and administrative support occupations—Con																
Supervisors	10 865	10 965	9 726	10 596	11 349	11 356	9 290	10 883	7 831	7 894	7 400	6 636	6 761	6 732	7 113	6 453
Supervisors and proprietors, sales occupations	13 660	13 683	13 401	11 875	19 784	20 162	12 747	8 585	10 321	10 419	12 890	10 413	9 393	9 700	2 317	7 049
Salaries	13 612	13 632	13 401	11 875	19 784	19 850	12 747	8 585	10 321	10 419	13 171	10 392	9 393	10 342	3 365	8 503
Self-employed	14 953	14 953	9 892	10 804	21 393	21 390	9 584	11 176	9 001	9 044	8 005	8 260	6 618	7 312	1 880	5 055
Sales representatives, finance and business services	10 993	10 987	9 892	10 804	11 413	11 407	9 584	11 176	9 338	9 360	9 585	8 039	7 442	7 350	8 187	7 558
Sales representatives, commodities, except retail	7 477	7 477	7 009	7 004	9 422	9 422	7 040	6 910	4 942	4 942	21 005	24 005	6 592	6 551	7 100	6 343
Sales workers, retail and personal services	7 216	7 231	7 378	7 673	9 852	9 847	8 226	7 180	3 638	3 601	3 663	4 042	5 104	6 511	6 168	5 141
Cashiers	7 941	7 896	7 378	7 673	7 920	7 881	8 626	7 180	4 234	4 336	4 742	4 136	5 094	6 168	6 308	7 156
Other sales occupations, retail and personal services	4 235	4 216	4 736	5 030	7 758	8 13	4 034	6 555	3 400	3 393	4 880	4 136	7 453	7 393	8 308	7 156
Sales related occupations	9 357	9 676	4 300	—	4 300	4 300	—	—	5 158	5 196	—	—	—	—	—	—
Administrative support occupations, including clerical	18 132	18 127	8 121	7 779	7 735	7 696	9 991	7 671	7 011	7 020	6 946	6 776	6 202	6 200	6 034	5 906
Supervisors, administrative support occupations	12 512	12 574	12 044	11 963	11 837	11 748	12 306	10 359	11 457	11 464	10 412	11 843	9 917	9 765	4 995	9 467
Computer equipment operators	8 770	8 747	8 580	8 361	9 113	9 103	8 571	8 488	7 345	7 345	8 936	7 324	7 891	8 095	4 995	12 383
Secretaries, stenographers, and typists	7 405	7 398	7 440	7 085	7 658	7 624	7 998	7 964	7 945	7 372	7 707	6 943	6 487	6 097	5 714	5 389
Secretaries	7 704	7 680	7 704	7 266	7 773	7 749	8 134	7 971	7 630	7 633	7 707	7 379	6 485	6 097	5 714	5 389
Stenographers and typists	6 450	6 381	6 683	6 743	6 480	6 108	7 674	7 918	6 657	6 530	5 497	5 513	6 530	6 575	7 247	7 247
Receptionists	7 488	7 499	6 692	6 683	4 986	4 982	5 168	4 419	4 753	4 611	5 939	5 042	5 032	5 259	2 254	4 086
Other information clerks	7 780	7 637	8 617	8 078	5 696	5 591	6 955	4 065	4 205	4 199	4 300	3 695	4 032	4 525	5 515	4 421
File clerks	5 049	4 957	5 526	4 812	5 073	4 868	5 478	4 593	4 071	4 684	4 487	4 364	4 216	4 055	6 148	4 994
Other records processing occupations, except financial	8 299	8 333	8 150	7 613	8 526	8 523	8 884	8 823	6 887	6 882	6 908	6 077	7 097	6 908	8 683	5 679
Bookkeepers, accounting, and auditing clerks	8 574	8 586	8 181	8 856	8 488	8 425	9 243	8 445	7 797	7 771	8 148	8 347	5 781	5 744	8 869	5 978
Payroll and timekeeping clerks	9 691	9 759	9 724	8 380	8 971	9 236	6 520	7 318	8 075	8 040	8 654	9 026	10 322	10 770	5 176	10 175
Other financial records processing occupations	8 429	8 370	8 496	8 466	8 237	8 433	5 563	10 469	6 937	6 953	6 796	6 648	6 678	6 801	6 582	6 468
Telephone operators	7 462	7 548	7 078	7 679	6 600	6 657	6 607	8 462	5 176	5 145	5 615	5 059	4 807	4 808	4 205	—
Mail and message distributing occupations	5 640	5 637	5 607	5 363	5 541	5 556	5 145	5 761	5 507	5 391	6 363	4 624	4 807	4 807	—	6 601
Production coordinators and expeditors	8 734	8 799	8 354	7 746	10 600	10 001	12 848	8 648	8 648	8 794	7 744	7 864	7 598	7 598	9 005	8 005
Traffic, shipping, and receiving clerks	7 014	7 192	4 798	5 704	9 151	8 893	9 996	10 196	6 995	7 101	5 773	5 157	7 014	7 014	5 005	10 016
Stock and inventory clerks	7 247	7 213	7 737	7 624	7 761	7 929	5 996	6 300	5 007	5 047	6 647	5 239	6 877	6 936	5 005	8 005
Other material recording, scheduling, and distributing clerks	7 870	7 932	7 878	7 920	6 231	5 991	6 974	5 405	6 845	7 020	5 621	6 269	5 964	5 964	5 798	10 016
Adjusters and investigators	9 800	9 812	9 608	9 454	8 609	8 508	8 951	8 986	7 887	7 737	7 465	6 918	9 398	9 497	6 837	6 381
Data-entry keyers	7 969	7 842	8 093	8 151	8 196	8 161	8 093	8 367	6 834	6 782	7 026	6 906	7 770	7 770	7 229	14 203
Other administrative support occupations	7 566	7 537	7 752	7 426	7 119	7 035	7 574	6 891	6 134	6 096	6 400	6 072	5 808	5 854	5 532	5 432
Service occupations	5 722	5 685	5 731	6 421	4 577	4 471	4 771	4 811	4 740	4 740	4 681	4 685	4 237	4 181	4 704	3 821
Private household occupations	5 729	4 934	7 425	10 520	5 286	5 061	6 011	5 208	5 642	5 773	5 375	5 010	5 262	7 329	2 002	—
Protective service occupations	5 862	5 055	7 425	10 520	5 246	4 955	6 434	5 898	5 562	5 672	5 373	4 902	5 672	4 718	2 002	—
Guards	2 916	2 916	7 425	10 520	5 948	7 451	1 729	2 375	8 023	8 495	5 476	4 683	12 005	12 005	2 002	—
Other protective service occupations	5 722	5 711	5 703	6 335	4 549	4 445	4 595	4 807	4 589	4 546	4 589	4 660	4 155	4 155	5 253	3 821
Service occupations, except protective and household	5 885	5 909	5 846	4 906	4 397	4 396	4 595	4 137	4 488	4 519	3 795	4 468	5 337	5 483	2 195	7 005
Food preparation and service occupations	6 169	6 332	6 309	4 652	4 652	5 124	4 356	1 623	4 439	4 307	4 580	4 071	6 005	6 005	3 552	3 078
Health service occupations	5 532	5 404	5 677	7 982	4 540	4 401	4 772	4 839	4 431	4 346	4 515	4 746	3 572	3 161	5 352	—
Cleaning and building service occupations, except household	6 036	6 540	4 686	3 301	4 730	4 820	4 440	5 161	6 543	6 676	6 047	4 349	6 651	6 651	—	—
Personal service occupations	3 378	1 355	4 091	—	4 782	4 939	3 616	4 915	5 946	5 706	4 325	7 004	3 426	7 305	605	—
Farming, forestry, and fishing occupations	12 070	12 339	10 255	8 330	7 967	7 885	9 232	8 079	9 051	9 159	8 163	8 143	8 135	8 144	7 508	9 725
Precision production, craft, and repair occupations	10 336	10 404	6 482	7 657	9 024	8 885	8 957	20 005	11 769	9 708	9 967	8 689	7 911	7 853	7 627	10 190
Mechanics and repairers	16 466	16 466	—	—	12 343	12 343	—	9 005	11 439	11 439	9 905	7 502	10 589	9 608	7 627	37 130
Supervisors, mechanics and repairers	4 457	4 457	—	—	13 005	13 005	—	—	6 133	7 079	7 100	4 362	7 845	7 845	7 628	9 672
Automobile mechanics, including body	10 092	10 953	—	3 205	9 492	9 492	—	31 005	6 847	10 200	—	—	6 814	6 814	—	—
Industrial machinery repairers	8 255	8 255	—	—	1 355	1 355	—	—	7 227	7 049	10 473	175	5 513	5 256	6 005	205
Electronic repairers, communications and industrial equipment	9 460	9 872	6 482	8 505	8 324	8 183	8 957	—	9 998	9 880	10 501	—	7 225	7 282	8 055	3 155
Heating, air conditioning, and refrigeration mechanics	22 982	22 982	—	—	6 252	6 232	7 499	6 676	8 084	7 891	6 492	8 707	5 469	5 493	5 005	—
Other mechanics and repairers	12 811	14 123	9 357	—	13 153	13 018	25 048	7 098	9 181	6 492	4 468	8 623	5 753	5 753	—	—
Construction trades	3 605	3 605	—	—	4 434	4 318	4 740	5 201	6 895	6 998	5 054	8 744	5 753	5 753	—	—
Supervisors, construction occupations	7 803	7 803	—	—	7 328	7 328	—	—	9 268	8 335	7 814	8 623	3 817	3 817	—	—
Carpenters	10 144	10 082	10 205	—	4 841	4 711	7 724	6 672	5 620	5 402	—	7 005	12 005	12 005	5 005	—
Electricians	8 736	8 736	—	—	3 244	3 244	—	—	11 884	11 884	—	8 005	3 652	3 652	—	—
Painters, construction and maintenance	10 147	15 005	8 933	—	2 988	3 283	153	—	8 393	8 467	7 064	10 005	9 375	9 375	—	—
Plumbers, pipefitters, and steamfitters	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other construction trades	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Insurance				Other finance and real estate				Business services				Automotive repair and services			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over—Con.																
Precision production, craft, and repair occupations—Con																
Extraction occupations	12 244	12 444	10 778	8 537	12 088	12 088	12 502	7 258	10 472	11 736	6 005	7 891	9 689	10 122	6 618	3 563
Precision production occupations	12 479	12 616	11 084	10 169	11 622	11 080	12 502	7 258	10 472	11 736	6 005	7 891	9 689	10 122	6 618	3 563
Supervisors, production occupations	15 455	15 455	15 455	15 455	12 699	12 699	14 470	8 208	10 669	10 878	7 889	9 881	14 355	14 733	10 063	—
Precision metalworking occupations	12 705	12 705	12 705	12 705	12 264	13 334	10 005	5 005	9 865	7 883	7 986	9 548	14 891	16 123	1 865	—
Tool and die makers	—	—	—	—	8 407	7 380	10 005	5 005	7 459	7 091	10 672	11 005	15 375	16 951	1 865	—
Machinists	—	—	—	—	30 005	30 005	—	—	6 374	6 458	4 405	7 605	12 576	12 576	—	—
Sheet metal workers	18 205	18 205	—	—	4 228	3 778	3 422	5 031	4 919	4 590	5 746	5 443	6 677	6 541	9 321	7 215
Precision textile, apparel, and furnishings machine workers	9 618	10 974	6 905	—	6 805	6 776	7 005	—	4 265	3 111	6 332	6 240	6 013	6 783	2 067	3 141
Precision food production occupations	11 755	11 755	—	—	11 193	6 417	18 955	—	12 197	13 440	9 933	—	7 638	7 638	—	—
Precision inspectors, testers, and related workers	9 835	9 835	—	—	6 295	5 931	8 133	7 224	6 557	6 594	7 379	5 168	—	—	—	—
Plant and system operators	10 865	11 354	6 675	—	6 664	6 679	6 812	5 847	6 106	6 106	5 918	6 191	4 567	4 530	4 739	4 813
Other precision production occupations	7 736	7 701	7 704	5 994	7 769	7 779	8 344	6 202	6 504	6 464	6 400	6 555	6 368	6 311	5 836	6 931
Operators, fabricators, and laborers	7 912	7 858	7 979	5 983	7 767	8 027	6 938	6 311	6 692	6 698	6 367	6 371	8 049	8 049	—	—
Machine operators, assemblers, and inspectors	7 991	7 954	7 890	6 336	8 422	8 422	—	—	7 130	7 586	5 457	9 149	—	—	—	—
Metalworking and plastic working machine operators	7 004	6 103	12 732	9 705	16 475	16 475	—	—	7 136	7 136	—	—	—	—	—	—
Fabricating machine operators, n.e.c.	7 005	—	7 005	—	5 888	5 888	—	—	6 477	6 118	7 648	5 159	3 614	3 614	—	—
Metal and plastic processing and woodworking machine operators	11 420	11 420	—	—	10 250	10 461	—	—	7 605	7 544	7 358	7 655	—	—	—	—
Printing machine operators	6 697	6 646	8 865	5 729	14 360	14 360	—	—	8 677	9 960	2 932	—	2 223	2 223	—	—
Textile machine operators	6 672	3 753	7 737	—	5 959	5 220	—	6 226	4 725	4 801	2 458	5 935	6 071	5 953	—	6 334
Textile sewing machine operators	8 717	8 569	8 960	—	3 804	4 506	2 784	2 307	4 812	4 532	7 537	3 257	—	—	—	—
Laundry and dry cleaning machine operators	9 115	8 553	12 485	—	7 185	7 185	—	—	3 315	3 440	1 615	3 096	1 422	1 691	705	—
Packaging and filling machine operators	6 669	6 669	—	—	9 527	9 527	—	—	6 245	6 245	6 427	6 950	7 035	6 673	6 673	7 736
Furnace, kiln, and oven operators, except food	7 404	7 260	7 452	7 603	6 904	5 851	10 474	5 853	6 893	6 884	6 309	5 741	8 035	6 008	5 512	3 113
Other specified machine operators	7 571	7 631	7 067	7 183	8 218	8 469	7 680	7 309	6 182	6 136	—	—	5 853	6 008	—	—
Miscellaneous and not specified machine operators	7 113	6 932	7 948	4 305	8 165	7 964	11 652	5 165	5 720	5 459	6 587	8 235	6 148	5 749	8 007	4 242
Fabricators, assemblers, and hand working occupations	5 403	5 403	—	—	8 724	8 724	—	—	5 842	5 530	10 090	5 264	7 049	7 879	14 335	1 005
Welders and cutters	7 308	7 143	7 948	4 305	7 752	8 326	4 005	5 165	6 121	6 154	6 001	5 127	8 033	8 033	—	—
Solders and brazers	6 041	6 041	—	—	8 606	7 174	14 005	—	5 810	5 505	6 297	8 900	7 386	6 955	9 467	5 740
Assemblers	6 041	6 041	—	—	8 606	7 174	14 005	—	5 403	5 290	11 522	4 351	4 724	4 076	5 809	4 283
Hand working occupations	6 159	6 580	5 222	4 801	7 438	5 280	10 442	—	6 156	6 027	6 327	8 310	9 882	10 433	5 878	13 689
Production inspectors, testers, samplers, and weighers	—	—	—	3 195	1 703	1 703	—	—	3 626	3 959	2 519	4 746	10 005	10 005	—	10 005
Graders and sorters, except agricultural	8 928	8 422	12 088	6 005	8 898	7 185	10 442	—	7 520	7 337	8 156	7 424	9 868	10 487	5 878	17 005
Other production inspectors, testers, samplers, and weighers	7 296	7 392	6 766	6 205	6 215	6 466	5 738	5 215	5 821	5 878	4 773	5 794	4 780	4 722	5 234	6 219
Transportation and material moving occupations	5 552	5 886	5 725	6 205	5 886	5 957	7 788	5 215	5 740	5 955	4 656	5 780	4 777	4 752	4 998	6 458
Transportation occupations	5 552	5 886	5 725	6 205	5 886	5 957	7 788	5 215	5 740	5 955	4 656	5 780	4 777	4 752	4 998	6 458
Motor vehicle operators	5 912	5 926	5 725	6 205	5 826	5 957	7 788	5 215	5 740	5 955	4 656	5 780	4 777	4 752	4 998	6 458
Truck drivers	7 202	7 202	—	—	2 694	6 432	8 857	—	5 466	5 515	4 386	6 674	4 792	4 911	4 188	6 650
Other sales workers	5 785	5 785	—	6 205	5 806	1 205	8 857	—	5 631	5 267	5 998	6 004	4 808	4 719	5 260	6 327
Other motor vehicle operators	—	—	—	—	9 037	5 273	9 037	—	6 415	6 296	5 742	4 323	4 808	4 719	5 260	6 327
Rail and water transportation occupations	9 910	11 299	7 055	—	9 151	10 039	5 005	—	6 623	7 205	5 173	6 123	5 015	1 722	13 254	3 773
Material moving equipment operators	14 205	14 205	—	—	10 041	10 041	—	—	12 915	10 005	—	—	4 003	—	—	—
Supervisors, material moving equipment operators	—	—	—	—	10 041	10 041	—	—	12 915	10 005	—	—	4 003	—	—	—
Conveying, grading, and dozer machine operators	—	—	—	—	8 780	10 038	5 005	—	1 874	1 874	—	—	5 352	2 078	13 254	4 425
Other material moving equipment operators	7 455	7 879	7 055	—	5 496	5 312	6 177	5 155	4 906	4 905	5 158	5 046	3 794	3 742	4 099	3 204
Handriers, equipment cleaners, helpers, and laborers	6 678	6 662	6 704	5 971	5 496	5 312	6 177	5 155	4 906	4 905	5 158	5 046	3 794	3 742	4 099	3 204
Supervisors, handlers, equipment cleaners, and laborers	13 689	14 313	6 705	—	6 728	4 586	8 334	—	12 755	14 449	6 974	10 005	7 675	7 675	—	—
Helpers, craft and production	7 297	6 892	8 005	—	5 793	6 294	2 505	—	2 717	2 339	3 670	6 685	3 527	3 033	6 085	3 644
Construction laborers	—	—	—	—	6 902	6 913	6 858	—	4 022	3 715	5 849	2 989	6 261	6 261	—	—
Freight stock and material handlers	6 694	6 876	6 146	—	5 802	6 048	—	—	5 427	5 706	4 751	5 681	3 791	3 835	3 890	3 138
Garage and service station occupations, and equipment cleaners	7 479	7 479	9 005	—	7 205	4 884	8 248	—	4 829	4 836	4 947	5 713	2 490	4 077	1 093	4 025
Hand packers and packagers	5 053	4 588	6 520	2 885	5 151	5 087	—	4 807	4 821	4 808	5 122	4 305	4 076	3 660	5 420	—
Laborers, except construction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Cont.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Other repair services				Hotels and lodging places				Other personal services, including private household				Entertainment and recreation services			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed males 16 years and over	12 624	12 806	10 101	10 853	10 158	10 747	7 211	8 288	11 310	12 084	7 446	8 979	12 305	12 740	8 970	9 833
Managerial and professional specialty occupations	20 064	20 329	12 106	18 538	16 974	17 280	13 317	14 048	17 607	18 066	13 344	13 904	17 204	17 630	13 255	13 368
Executive, administrative, and managerial occupations	20 281	20 528	12 213	18 993	17 375	17 719	12 988	14 371	17 511	20 111	14 036	14 196	18 764	19 359	11 027	14 290
Officials and administrators, public administration	21 203	21 708	5 305	—	23 809	24 541	—	18 688	24 167	24 010	—	10 333	25 239	25 376	—	19 346
Financial managers	21 891	21 100	—	17 482	22 800	22 858	10 869	22 806	20 915	20 860	22 481	10 492	22 918	23 376	20 807	23 446
Managers, marketing, advertising, and public relations	15 234	15 234	—	—	16 079	16 079	—	—	16 975	15 365	24 440	17 467	22 678	23 445	11 695	23 516
Administrators, education and related fields	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24 096
Managers, medicine and health	20 946	21 550	9 496	—	16 987	17 253	12 285	16 877	19 243	19 734	15 098	13 611	18 671	19 045	16 767	10 997
Other specified managers	20 340	20 571	12 728	19 770	18 971	18 298	13 422	14 844	19 737	19 734	13 141	14 517	18 574	19 195	16 567	14 020
Managers and administrators, n.e.c.	23 126	23 378	13 822	22 900	18 576	19 028	12 097	18 842	20 894	21 563	12 911	14 244	18 574	19 315	10 727	14 020
Salaries	15 786	15 918	10 823	13 013	16 150	16 087	25 740	20 553	17 728	18 363	13 466	14 966	17 894	18 369	9 247	13 824
Self-employed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Management related occupations	17 523	17 986	10 086	12 713	12 002	12 136	11 195	12 329	16 640	17 588	8 229	10 487	18 738	18 192	14 281	15 194
Accountants and auditors	19 162	19 944	245	14 148	10 554	10 559	10 482	11 020	17 101	17 472	13 485	12 078	17 169	17 538	12 922	17 775
Personnel, training, and labor relations specialists	17 261	18 065	11 746	10 098	16 858	18 086	12 666	12 546	15 916	17 769	7 063	10 078	17 071	17 424	14 077	18 679
Buyers and purchasing agents	16 665	16 881	11 714	13 183	13 314	13 183	10 391	13 146	16 537	17 168	9 695	—	19 560	20 065	19 383	8 744
Inspectors and compliance officers	11 791	11 266	—	19 005	11 589	11 589	—	—	12 995	12 995	—	—	15 649	15 783	26 525	—
Other management related occupations	20 114	20 114	—	—	26 183	28 802	24 818	35 675	17 634	17 869	5 005	—	20 380	20 822	14 850	12 984
Professional specialty occupations	17 885	18 267	11 422	12 546	12 795	12 673	15 507	12 242	11 943	12 045	10 418	13 327	16 195	16 481	14 485	12 969
Engineers, architects, and surveyors	18 973	19 338	14 410	8 960	16 319	17 523	11 474	11 884	15 155	15 213	12 419	18 727	18 422	18 362	19 569	15 866
Architects	20 914	20 914	—	—	18 621	22 427	7 005	6 405	24 161	22 831	—	—	14 313	14 330	—	40 005
Engineers	19 102	19 470	14 410	8 960	16 208	17 257	11 793	11 450	14 731	12 419	—	18 727	18 613	18 537	21 891	15 068
Civil engineers	20 455	20 011	15 005	—	14 141	14 839	—	8 899	11 059	10 077	—	—	16 422	17 179	—	2 019
Electrical and electronic engineers	20 551	21 153	8 900	10 210	17 121	19 419	9 645	15 211	11 242	13 860	6 005	—	16 636	16 417	21 973	14 907
Mechanical engineers	18 800	18 800	—	—	21 164	21 342	20 005	11 953	13 841	13 841	—	13 005	24 181	24 464	—	23 641
Industrial engineers	19 007	19 679	—	3 268	15 475	16 696	12 829	12 829	13 812	13 000	14 092	22 369	21 805	22 314	21 005	40 010
Other engineers	18 192	18 180	—	15 855	14 841	14 832	15 005	8 697	17 450	17 598	—	—	21 415	21 219	—	16 435
Surveyors and mapping scientists	1 915	2 047	—	—	6 672	6 672	—	—	13 202	13 202	—	—	21 505	21 505	—	—
Computer systems analysts and scientists	16 472	16 472	—	—	21 005	22 317	33 905	—	16 851	15 921	—	—	19 456	19 592	18 198	13 667
Operations and systems researchers and analysts	17 930	21 817	9 185	—	13 932	13 932	—	14 005	20 842	21 545	19 435	—	25 799	25 168	—	38 005
Mathematical scientists	—	—	—	—	14 889	14 889	—	—	21 135	21 135	—	—	23 812	21 593	—	31 580
Natural scientists	12 013	12 013	—	40 005	10 564	10 338	11 291	—	11 188	11 188	—	—	14 262	14 393	4 205	15 421
Chemists, except biochemists	6 705	6 705	—	—	—	—	—	—	10 457	10 457	—	—	19 628	19 628	—	18 285
Other natural scientists	13 605	13 605	—	40 005	10 564	10 338	11 291	—	11 320	11 320	—	—	13 580	13 717	4 205	13 035
Health diagnosing occupations	7 005	7 005	—	—	76 342	99 275	40 305	—	26 892	27 953	26 172	2 730	32 477	30 972	10 987	85 507
Health assessment and treating occupations	—	—	—	—	17 321	17 422	—	—	9 993	9 993	8 001	6 065	19 166	19 842	16 498	9 299
Registered nurses	—	—	—	—	16 672	16 672	—	—	8 216	7 969	6 981	8 148	34 326	34 326	10 005	10 005
Other health assessment and treating occupations	—	—	—	—	17 440	17 576	—	—	11 093	11 496	—	1 205	13 129	13 501	16 498	8 005
Teachers, except postsecondary	9 282	8 632	—	18 005	7 185	7 130	8 298	3 459	5 584	5 367	8 615	6 545	11 821	12 038	6 079	8 185
Social scientists and urban planners	26 487	26 487	—	—	18 813	18 988	15 005	18 005	20 075	19 893	—	—	34 728	36 497	13 298	12 755
Social and recreation workers	—	—	—	—	6 103	6 518	2 033	2 894	10 677	10 681	10 505	12 818	7 671	7 846	—	6 077
Lawyers and judges	—	—	—	—	48 942	51 635	28 005	19 005	28 978	28 978	—	—	37 532	37 532	—	20 285
Writers, artists, entertainers, and athletes	15 137	15 850	1 639	12 551	13 324	12 818	28 361	14 612	12 321	12 473	10 423	14 282	16 834	17 078	15 877	13 509
Other professional specialty occupations	14 602	14 602	—	—	7 776	7 969	5 437	8 005	11 431	10 905	6 365	15 745	11 858	12 136	9 184	13 116
Technical, sales, and administrative support occupations	14 098	14 331	10 900	11 279	8 486	8 534	8 317	7 839	11 154	11 604	7 805	8 329	11 142	11 274	8 502	9 036
Technicians and related support occupations	12 000	12 146	10 247	10 701	14 239	15 259	7 184	10 658	12 474	12 840	10 080	9 432	17 800	17 010	16 305	17 881
Health technicians and technicians	12 870	15 639	8 005	515	14 574	14 574	—	—	5 949	6 875	9 459	4 731	12 591	12 591	—	20 005
Licensed practical nurses	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other health technicians and technicians	12 870	15 639	8 005	515	14 574	14 574	—	—	9 757	9 241	14 915	4 731	12 888	12 888	—	20 005
Engineering and science technicians	13 024	13 281	11 904	10 322	13 541	14 652	6 843	10 658	11 507	11 784	9 044	10 165	18 968	16 972	18 568	13 544
Electrical and electronic technicians	12 925	13 227	11 904	10 322	13 541	14 652	6 843	10 658	11 507	11 784	9 044	10 165	18 968	16 972	18 568	13 544
Industrial and mechanical engineering technicians	11 410	9 994	—	18 205	13 563	13 563	—	8 405	13 844	15 156	—	7 903	16 455	16 282	20 777	9 952
Drafting and mechanical technicians	11 519	11 519	—	—	11 190	12 098	4 260	8 405	13 844	15 156	—	7 903	16 455	16 282	20 777	9 952
Other engineering and science technicians	15 171	15 404	—	—	10 679	11 945	7 447	7 362	10 556	10 716	—	13 001	19 500	20 109	12 423	11 755
Technicians, except health, engineering, and science	11 168	11 221	8 978	11 147	15 055	16 072	7 633	7 362	13 169	13 594	10 256	9 604	16 973	17 235	14 206	21 531
Airplane pilots and navigators	15 774	15 774	—	—	20 807	20 807	—	—	11 092	11 092	—	—	23 710	23 710	14 206	21 531
Air traffic controllers and broadcast equipment operators	16 114	15 802	—	16 010	20 765	21 544	13 005	—	4 929	4 929	—	—	16 157	16 157	15 881	48 005
Computer programmers	12 359	12 359	—	—	13 823	15 126	7 241	—	12 873	14 261	—	—	16 580	15 851	19 255	26 635
Other technicians, except health, engineering, and science	11 066	11 123	8 978	10 925	10 695	11 432	5 505	—	13 276	13 699	10 256	9 604	17 236	17 763	11 638	14 065

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Other repair services				Hotels and lodging places				Other personal services, including private household				Entertainment and recreation services			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over—Con																
Technical, sales, and administrative support occupations—Con.																
Sales occupations	16 468	16 657	12 398	12 549	12 625	13 364	8 746	9 764	12 280	12 640	7 967	8 507	9 630	9 881	6 975	6 506
Supervisors and proprietors, sales occupations	18 094	18 217	16 777	13 027	17 024	17 203	16 929	12 932	17 290	17 405	16 681	12 737	14 916	15 039	14 555	11 963
Salaried	18 669	18 853	16 777	12 082	17 366	17 312	18 073	13 670	17 161	17 428	15 650	11 805	14 794	14 728	14 158	11 963
Self-employed	16 325	16 310	—	14 381	16 023	16 875	9 085	13 079	17 551	17 355	18 061	14 409	15 504	15 940	15 504	—
Sales representatives, finance and business services	15 830	16 048	6 699	8 849	15 743	16 003	15 130	10 732	15 505	15 650	—	7 243	14 087	14 418	10 914	8 387
Sales representatives, commodities, except retail	24 688	24 688	—	15 455	28 005	28 005	—	—	15 658	15 658	—	11 005	12 858	12 858	—	5 710
Sales workers, retail and personal services	12 772	13 087	6 340	35 406	7 853	8 207	5 618	8 621	11 004	11 429	6 664	7 251	8 213	8 427	5 992	5 981
Cashiers	10 004	14 977	2 455	35 916	7 804	8 059	5 779	9 011	5 490	5 175	5 897	7 151	8 048	8 287	6 103	6 161
Other sales occupations, retail and personal services	12 970	13 002	8 005	35 005	8 438	9 910	3 981	3 960	11 327	11 728	6 839	7 269	8 568	8 725	5 704	5 303
Sales related occupations	12 732	—	—	—	7 775	7 775	—	—	13 199	12 571	—	11 477	16 550	16 550	—	—
Administrative support occupations, including clerical	12 228	12 387	10 865	10 845	7 612	7 514	8 292	7 356	8 446	8 832	6 799	7 937	10 723	11 025	8 219	9 511
Supervisors, administrative support occupations	14 848	14 922	14 121	20 717	13 322	13 828	11 791	12 133	14 038	14 041	13 279	12 821	16 717	17 096	12 747	15 655
Computer equipment operators	51 512	51 929	12 605	11 616	12 716	13 263	11 791	6 001	14 620	14 527	—	12 975	12 960	13 154	10 208	11 248
Secretaries, stenographers, and typists	51 658	56 191	—	12 045	8 331	8 235	9 595	5 725	8 410	9 036	4 594	6 646	12 495	13 441	5 846	9 392
Secretaries	73 757	73 757	—	—	8 749	8 603	9 595	—	8 910	9 485	4 356	7 005	12 214	13 441	4 515	11 719
Stenographers and typists	9 786	11 023	—	12 045	6 266	6 304	—	5 725	5 758	6 029	5 501	4 140	5 989	5 694	8 713	8 713
Receptionists	2 178	2 541	—	3 005	6 570	6 052	2 508	6 462	4 654	4 897	2 613	5 529	5 120	5 064	6 488	1 270
Other information clerks	8 868	8 868	—	—	6 594	6 393	8 917	6 602	5 052	5 186	10 005	5 055	10 046	10 826	3 506	6 991
File clerks	12 330	12 330	—	—	4 832	5 426	4 494	1 518	7 781	7 040	10 005	5 055	7 094	7 040	10 816	3 645
Other records processing occupations, except financial	10 562	10 181	15 266	10 299	5 355	5 696	5 384	4 975	8 344	9 646	4 436	9 000	11 807	12 105	10 389	10 635
Bookkeepers, accounting, and auditing clerks	10 844	11 175	2 294	11 267	9 121	8 976	10 335	8 783	9 904	9 396	10 224	5 155	15 929	15 929	10 244	9 765
Payroll and timekeeping clerks	10 138	10 138	—	—	8 825	8 668	7 867	8 617	8 421	8 763	—	10 005	8 264	7 440	29 005	4 962
Other financial records processing occupations	12 395	13 075	1 805	—	13 275	14 514	7 815	11 151	6 288	4 788	—	14 005	11 894	12 612	4 905	5 705
Telephone operators	4 738	4 738	—	—	4 925	4 616	6 268	8 809	8 251	9 827	4 105	2 670	9 991	10 209	9 159	—
Mail and message distributing occupations	8 831	8 782	—	6 838	7 041	7 156	7 400	8 869	5 932	5 918	5 091	10 642	6 968	6 364	6 506	11 003
Production coordinators and expeditors	11 445	11 445	—	15 005	18 759	20 075	5 835	12 643	9 796	9 649	10 725	7 017	10 511	10 234	22 734	9 699
Traffic, shipping, and receiving clerks	9 082	8 691	12 790	9 181	8 803	8 226	10 731	8 176	7 927	8 127	7 080	6 844	10 110	12 627	7 974	12 162
Stock and inventory clerks	10 361	10 311	9 379	11 264	6 824	6 413	6 413	6 153	6 505	6 910	5 618	6 188	8 125	8 828	5 052	10 129
Other material recording, scheduling, and distributing clerks	10 876	10 830	—	—	8 076	8 141	2 809	8 112	7 428	7 932	5 618	6 747	9 111	9 662	2 503	6 005
Adjusters and investigators	16 341	16 598	8 845	11 735	12 874	12 819	9 005	13 612	13 261	13 511	10 759	17 010	12 662	12 707	11 670	14 674
Data-entry keyers	12 500	19 485	6 005	10 085	9 687	8 711	9 219	8 711	11 549	15 578	7 922	—	13 285	12 707	5 738	11 905
Other administrative support occupations	10 081	10 177	8 869	10 538	7 666	7 704	7 862	6 834	7 178	7 620	5 617	7 747	8 935	9 131	7 710	6 016
Service occupations	8 453	8 542	8 305	8 889	7 532	7 721	6 466	7 515	9 648	10 270	6 387	9 227	6 525	6 565	6 103	6 895
Private household occupations	—	—	—	—	—	—	—	—	4 981	5 247	4 597	5 368	—	—	—	—
Protective service occupations	7 939	8 005	7 678	—	8 806	8 783	8 720	8 529	7 190	7 386	6 126	9 726	6 742	6 665	7 475	7 252
Guards	7 806	7 840	7 678	—	8 420	8 354	8 643	8 214	6 927	7 138	6 992	9 726	6 402	6 402	7 278	7 252
Other protective service occupations	10 807	10 807	—	—	13 714	13 884	10 601	12 714	14 323	14 688	10 055	9 825	11 077	11 050	12 311	7 038
Service occupations, except protective and household	8 495	8 362	8 382	8 889	7 465	7 653	6 394	7 484	7 039	7 749	7 532	9 225	6 303	6 553	6 003	6 807
Food preparation and service occupation	8 805	8 472	11 576	3 921	7 353	7 359	8 359	1 588	5 079	5 748	6 532	7 343	6 706	6 584	6 931	6 801
Health service occupations	14 805	14 805	—	—	7 822	7 328	8 600	1 553	5 644	5 713	5 832	7 363	7 080	7 080	6 654	6 599
Cleaning and building service occupations, except household	6 531	8 996	8 096	10 763	6 894	6 880	5 766	6 536	6 489	6 713	5 832	7 300	6 162	6 160	6 883	6 922
Personal service occupations	9 067	8 996	11 205	2 625	9 186	9 637	7 282	8 221	10 924	11 302	7 701	10 253	6 545	6 704	5 044	5 348
Farming, forestry, and fishing occupations	10 880	10 993	2 266	4 447	6 167	6 006	5 947	6 793	4 200	4 374	3 467	4 683	8 235	8 344	7 200	8 319
Precision production, craft, and repair occupations	12 047	12 149	10 365	10 838	11 430	11 458	10 746	10 172	10 358	10 742	8 057	9 337	12 039	12 152	10 434	12 404
Mechanics and repairers	12 091	12 174	10 442	10 722	10 738	10 499	14 402	11 047	10 505	10 732	8 578	11 473	9 872	9 885	8 670	9 900
Supervisors, mechanics and repairers	19 160	19 249	17 767	15 089	13 300	13 688	9 528	10 067	12 765	13 207	9 396	—	15 703	16 055	5 205	15 541
Automobile mechanics, including body	11 881	12 028	8 508	12 516	10 444	10 377	12 605	18 365	9 500	9 741	8 064	5 873	9 277	9 161	15 794	9 818
Industrial machinery repairers	13 838	14 022	11 729	13 566	10 520	10 267	34 507	8 216	10 358	10 742	7 372	11 112	9 567	9 567	9 772	8 818
Electronic repairers, communications and industrial equipment	10 880	10 946	9 611	10 059	14 831	15 088	11 045	14 173	13 023	13 023	—	13 635	13 543	14 152	5 798	8 157
Heating, air conditioning, and refrigeration mechanics	14 635	14 882	10 483	12 191	12 255	12 038	15 999	10 327	13 728	17 825	10 176	—	15 860	14 669	18 494	19 505
Other mechanics and repairers	11 659	11 702	10 330	10 148	9 916	9 898	8 560	11 163	10 372	10 596	9 305	13 162	9 505	9 501	9 596	9 596
Construction trades	12 984	13 109	11 007	10 979	10 818	10 986	8 412	9 328	7 756	8 190	5 812	5 637	14 932	15 133	11 948	14 736
Supervisors, construction occupations	18 893	19 133	12 291	8 849	14 525	14 597	9 655	9 110	14 475	15 388	14 255	10 575	19 834	20 558	9 921	28 384
Carpenters	10 153	10 409	9 443	6 069	10 864	10 880	6 963	10 592	10 984	10 252	4 679	4 679	14 356	14 243	16 984	14 860
Electricians	13 898	13 972	12 972	11 931	12 583	12 459	12 810	9 910	10 984	11 509	5 967	6 205	16 682	16 630	17 734	29 578
Painters, construction and maintenance	9 519	9 638	3 584	8 911	8 718	8 804	5 564	9 198	5 695	5 594	4 892	6 205	11 386	12 286	5 813	10 716
Plumbers, pipefitters, and steamfitters	14 774	15 044	11 474	9 984	10 470	10 761	10 509	8 611	6 911	7 705	10 005	2 505	15 605	16 043	10 128	11 481
Other construction trades	11 722	11 694	10 517	17 284	10 879	11 003	10 634	7 511	9 921	9 956	10 550	5 756	12 497	13 330	10 817	11 458

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Other repair services				Hotels and lodging places				Other personal services, including private household				Entertainment and recreation services			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extraction occupations	10 712	11 158	5 205	—	13 219	13 476	11 274	10 932	4 809	5 215	2 105	—	15 219	15 889	12 490	13 005
Precision production occupations	11 665	11 842	10 048	11 112	13 015	13 313	11 274	10 932	10 810	11 228	8 431	9 481	16 304	16 954	11 539	15 525
Supervisors, production occupations	18 852	19 016	13 147	18 653	13 313	13 476	11 274	12 687	14 584	15 162	12 050	10 872	17 182	17 767	11 540	18 213
Precision metalworking occupations	14 264	14 516	10 340	11 853	12 843	12 887	15 272	9 155	12 681	14 769	7 410	5 842	13 077	13 373	9 379	19 353
Tool and die makers	11 375	11 913	7 986	13 672	12 193	11 868	15 272	10 305	12 805	12 605	7 410	5 509	14 416	14 416	10 097	12 761
Machinists	14 842	15 003	9 910	13 672	12 193	11 868	15 272	10 305	12 805	12 605	7 410	5 509	14 416	14 416	10 097	12 761
Sheet metal workers	12 023	12 068	9 988	13 444	15 500	15 500	9 500	8 005	17 336	17 336	7 410	8 845	22 483	21 645	7 665	36 108
Precision textile, apparel, and furnishings machine workers	14 767	15 069	9 988	12 564	15 862	15 862	9 795	8 005	17 336	17 336	7 410	8 845	22 483	21 645	7 665	36 108
Precision food production occupations	10 793	10 991	9 988	12 564	15 862	15 862	9 795	8 005	17 336	17 336	7 410	8 845	22 483	21 645	7 665	36 108
Precision production occupations	21 688	21 977	21 800	18 706	10 872	10 872	7 289	10 855	11 228	11 228	7 340	9 360	13 330	13 880	7 323	15 815
Precision production occupations	21 688	21 977	21 800	18 706	10 872	10 872	7 289	10 855	11 228	11 228	7 340	9 360	13 330	13 880	7 323	15 815
Plant and system operators	15 881	16 176	8 711	18 524	13 859	14 228	12 215	9 763	14 945	16 110	8 442	15 248	17 699	18 391	14 035	20 912
Other precision production occupations	9 363	9 465	8 659	9 247	8 138	8 406	12 330	11 291	8 869	8 823	—	4 599	21 658	23 292	10 005	26 829
Operators, fabricators, and laborers	12 055	12 324	9 079	10 159	7 382	7 750	6 114	7 479	9 333	9 983	7 379	7 629	10 487	10 993	8 650	9 486
Machine operators, assemblers, and inspectors	12 703	12 974	10 080	10 758	8 016	8 830	6 021	7 079	9 983	9 983	7 379	7 629	10 487	10 993	8 650	9 486
Machine operators and tenders, except precision	10 605	11 401	8 408	10 408	7 713	8 449	5 895	6 849	9 016	9 685	7 488	7 448	12 306	12 418	11 631	10 904
Metalworking and plastic working machine operators	9 589	9 555	13 123	6 484	7 743	7 882	8 159	—	7 907	9 856	3 943	—	10 090	9 964	12 005	—
Fabricating machine operators, n.e.c.	14 099	14 555	4 805	—	5 805	5 805	—	—	—	—	—	—	6 305	6 005	7 05	6 005
Metal and plastic processing and woodworking machine operators	10 847	10 846	13 200	9 465	9 677	9 658	9 935	—	6 135	6 288	4 782	—	10 479	9 951	19 005	35 005
Printing machine operators	10 954	12 832	5 033	—	12 188	15 463	5 405	—	10 775	10 278	9 046	10 082	14 556	15 697	7 114	12 655
Textile machine operators	11 371	10 972	19 005	13 783	9 605	9 605	6 319	—	9 585	10 624	10 624	658	28 904	7 210	120 500	9 747
Textile sewing machine operators	4 777	3 489	—	3 910	6 319	—	—	—	5 596	5 843	4 946	—	8 269	8 269	—	—
Laundry and dry cleaning machine operators	3 904	3 316	5 005	—	6 062	6 389	5 419	6 509	9 457	10 026	7 680	7 755	4 623	6 021	1 175	5 997
Packaging and filling machine operators	21 569	21 569	—	—	6 005	6 005	—	—	3 435	4 231	—	6 975	12 360	12 360	—	—
Food, kind, and oven operators, except food	12 568	12 869	7 878	6 456	8 934	9 184	8 009	9 186	12 791	13 697	13 911	5 522	12 800	12 800	12 381	11 392
Other specified machine operators	6 196	6 177	10 963	11 364	8 901	9 986	5 814	7 146	8 133	9 044	6 289	5 328	9 120	9 161	8 156	9 137
Miscellaneous and not specified machine operators	12 364	12 424	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fabricators, assemblers, and hand working occupations	13 110	13 432	9 811	11 114	9 711	10 609	6 986	9 012	7 791	7 401	5 703	9 676	9 955	10 261	10 794	11 582
Welders and cutters	13 281	13 410	9 854	11 251	11 280	12 285	9 694	8 298	12 238	11 358	7 432	14 461	11 725	11 382	14 487	24 005
Solders and brazers	8 264	11 702	8 594	9 946	8 895	9 905	—	—	13 285	6 005	—	—	8 148	8 730	10 144	10 106
Assemblers	9 712	9 928	8 594	8 648	8 895	9 332	7 405	10 594	4 806	5 048	3 953	2 006	10 324	10 712	8 005	15 005
Hand working occupations	8 957	8 957	—	8 933	8 535	9 442	8 405	6 795	7 127	7 067	—	9 488	12 562	12 791	10 305	9 005
Production inspectors, testers, samplers, and weighers	14 245	14 615	8 449	11 179	11 543	12 279	8 405	10 070	7 097	7 654	5 528	9 488	12 562	12 791	10 305	9 005
Graders and sorters, except agricultural	5 404	4 415	2 435	11 045	9 437	10 500	9 505	8 505	5 862	5 719	6 405	8 685	5 338	3 646	10 305	9 005
Other production inspectors, testers, samplers, and weighers	15 235	15 462	10 167	11 243	11 879	12 343	8 005	10 623	7 239	7 902	5 448	9 630	14 852	15 222	—	—
Transportation and material moving occupations	11 136	11 353	9 096	8 491	7 361	7 725	5 753	8 037	11 349	11 788	8 588	10 137	9 829	10 151	8 039	8 204
Transportation occupations	10 978	11 267	9 192	7 955	7 230	7 600	5 746	8 287	11 374	11 792	8 700	10 137	9 829	10 151	8 039	8 204
Motor vehicle operators	10 915	11 214	9 192	7 955	7 230	7 600	5 746	8 287	11 374	11 792	8 700	10 137	9 829	10 151	8 039	8 204
Truck drivers	10 820	11 065	9 571	8 150	7 970	8 102	7 295	8 242	11 359	11 778	8 700	10 137	9 829	10 151	8 039	8 204
Driver-sales workers	15 310	15 815	7 325	8 405	11 403	12 689	5 121	15 485	13 331	13 514	10 648	12 354	11 609	11 778	8 745	7 005
Other motor vehicle operators	8 306	8 943	5 197	—	6 750	7 153	9 121	8 177	9 480	9 480	7 789	6 970	8 047	8 256	7 033	6 271
Rail and water transportation occupations	15 152	14 823	—	—	6 322	7 183	5 130	4 716	13 589	13 589	—	—	7 148	6 875	8 989	10 093
Material moving equipment operators	11 854	11 726	—	10 603	8 952	8 984	6 032	4 716	9 721	11 474	5 709	9 951	10 601	10 739	9 200	10 870
Supervisors, material moving equipment operators	11 427	11 726	—	16 005	12 469	12 469	—	—	13 034	15 005	1 205	9 951	15 805	15 805	9 200	—
Crane, hoist and winch operators	14 709	14 709	—	18 605	12 469	12 469	—	—	2 771	4 140	151	—	14 788	14 788	9 181	11 005
Excavating, grading, and dozer machine operators	12 370	12 390	8 905	10 790	6 849	6 849	—	10 005	12 045	14 025	6 409	—	9 571	9 481	9 202	—
Other material moving equipment operators	10 539	9 974	8 338	8 560	9 172	9 362	6 032	4 309	10 296	11 883	6 945	9 951	10 406	10 484	9 202	—
Handlers, equipment cleaners, helpers, and laborers	8 975	9 171	7 488	7 295	6 882	6 978	6 577	7 490	5 542	5 672	5 251	5 127	9 241	9 658	6 690	8 760
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	20 981	20 981	—	—	8 819	9 530	5 975	—	14 919	15 828	9 005	23 505	23 771	24 016	—	11 962
Helpers, craft and production	5 904	5 707	7 407	5 835	6 245	6 448	5 671	8 141	4 313	5 154	3 182	5 186	4 234	4 561	—	3 328
Construction laborers	12 776	13 341	9 885	7 760	7 250	7 153	8 253	7 398	5 313	5 695	2 826	1 317	10 441	10 537	9 034	11 854
Freight, stock, and material handlers	4 980	4 800	7 177	1 623	9 210	10 377	5 292	7 398	4 917	4 552	5 885	5 346	14 063	14 637	9 034	13 361
Garage and service station occupations, and equipment cleaners	10 177	10 633	6 978	10 435	7 375	7 714	7 670	7 504	6 539	6 138	8 703	4 581	4 333	4 458	3 358	8 529
Hand packers and packagers	6 683	7 169	4 649	—	14 502	19 872	5 105	—	5 478	4 388	7 385	5 167	4 936	4 936	7 248	7 721
Laborers, except construction	10 123	10 415	7 933	7 626	6 004	5 671	6 794	7 584	5 536	5 781	5 004	5 143	5 984	5 939	5 570	7 221

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Cont.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Other repair services				Hotels and lodging places				Other personal services, including private household				Entertainment and recreation services			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over	5 922	5 871	6 231	5 625	4 898	4 854	4 814	4 623	4 468	4 671	3 775	4 466	6 057	5 079	5 767	5 736
Managerial and professional specialty occupations	9 446	9 445	9 216	7 746	8 564	8 563	8 254	8 194	7 304	7 213	8 198	7 175	8 122	8 109	8 597	7 846
Executive, administrative, and managerial occupations	9 960	9 985	9 822	7 074	8 615	8 599	8 521	8 372	8 838	8 824	8 994	8 205	9 573	9 668	8 311	8 043
Officials and administrators, public administration	10 762	10 762	10 109	10 005	12 357	12 353	8 485	11 387	12 822	13 296	9 555	25 005	14 180	14 501	6 559	10 005
Financial managers	10 109	10 109	10 109	10 005	12 357	12 353	8 485	10 199	8 830	8 754	12 360	15 658	12 546	12 631	10 592	16 263
Managers, marketing, advertising, and public relations	7 005	7 005	7 005	7 005	6 369	6 369	6 369	6 369	10 531	11 216	7 755	15 658	10 714	10 419	10 592	16 263
Administrators, education and related fields	15 807	15 807	15 807	15 807	9 015	9 251	6 890	9 217	10 549	10 795	9 509	6 786	10 225	10 470	8 144	7 624
Managers, medicine and health	9 789	9 808	10 004	6 887	8 328	8 271	8 998	8 100	8 456	8 438	8 465	8 206	9 066	9 166	7 833	7 346
Managers and administrators, n.e.c.	11 343	11 523	7 758	7 154	8 795	8 804	6 177	7 782	8 950	8 950	7 744	8 615	9 114	9 220	7 877	7 457
Self-employed	6 990	6 761	16 180	5 930	7 064	6 862	6 862	10 053	7 483	7 100	10 782	7 353	8 646	8 711	7 007	5 803
Management related occupations	10 164	10 060	12 483	10 005	8 609	8 652	7 101	9 062	10 202	10 071	11 429	5 823	11 712	11 717	11 875	10 173
Accountants and auditors	10 531	10 489	11 533	10 005	8 108	8 023	6 996	8 621	9 289	9 143	9 419	3 666	11 456	11 383	10 397	11 429
Personnel, training, and labor relations specialists	10 994	10 997	10 925	10 005	9 828	10 226	9 076	9 070	11 657	11 388	13 521	8 361	9 282	9 292	9 099	8 340
Buyers and purchasing agents	8 315	7 650	14 273	10 005	11 267	10 420	7 736	9 485	13 355	12 079	10 659	5 505	10 207	10 123	12 905	10 206
Inspectors and compliance officers	10 470	10 470	10 470	10 005	6 579	8 880	1 210	16 128	5 282	4 165	8 005	4 510	10 506	9 199	13 287	10 287
Other management related occupations	5 480	5 379	5 514	11 321	9 173	9 224	6 395	6 153	5 426	5 322	5 112	4 510	13 245	13 217	15 959	11 442
Professional specialty occupations	10 005	10 005	10 005	10 005	10 005	10 005	10 005	10 005	5 426	5 322	6 878	5 532	7 299	7 239	8 837	7 743
Engineers, architects, and surveyors	10 005	10 005	10 005	10 005	10 005	10 005	10 005	10 005	5 426	5 322	6 878	5 532	7 299	7 239	8 837	7 743
Architects	10 005	10 005	10 005	10 005	10 005	10 005	10 005	10 005	5 426	5 322	6 878	5 532	7 299	7 239	8 837	7 743
Engineers	10 005	10 005	10 005	10 005	10 005	10 005	10 005	10 005	5 426	5 322	6 878	5 532	7 299	7 239	8 837	7 743
Civil engineers	10 005	10 005	10 005	10 005	10 005	10 005	10 005	10 005	5 426	5 322	6 878	5 532	7 299	7 239	8 837	7 743
Electrical and electronic engineers	10 005	10 005	10 005	10 005	10 005	10 005	10 005	10 005	5 426	5 322	6 878	5 532	7 299	7 239	8 837	7 743
Mechanical engineers	10 005	10 005	10 005	10 005	10 005	10 005	10 005	10 005	5 426	5 322	6 878	5 532	7 299	7 239	8 837	7 743
Other engineers	10 005	10 005	10 005	10 005	10 005	10 005	10 005	10 005	5 426	5 322	6 878	5 532	7 299	7 239	8 837	7 743
Surveyors and mapping scientists	10 005	10 005	10 005	10 005	10 005	10 005	10 005	10 005	5 426	5 322	6 878	5 532	7 299	7 239	8 837	7 743
Computer systems analysts and scientists	12 005	12 005	12 005	12 005	16 123	16 123	16 123	9 005	3 345	3 345	3 345	3 345	17 581	17 581	17 581	17 581
Operations and systems researchers and analysts	25 852	25 852	25 852	25 852	11 706	14 467	6 503	6 503	6 503	6 503	6 503	6 503	21 126	21 126	21 126	21 126
Mathematical scientists	13 005	13 005	13 005	13 005	10 095	9 963	6 091	6 091	11 823	11 823	11 823	11 823	9 052	8 191	9 052	5 880
Natural scientists	13 005	13 005	13 005	13 005	6 091	6 091	6 091	6 091	7 574	7 574	7 574	7 574	8 885	9 067	8 885	5 880
Chemists, except biochemists	13 005	13 005	13 005	13 005	6 091	6 091	6 091	6 091	7 574	7 574	7 574	7 574	21 096	21 096	21 096	21 096
Other natural scientists	13 005	13 005	13 005	13 005	6 091	6 091	6 091	6 091	7 574	7 574	7 574	7 574	21 096	21 096	21 096	21 096
Health diagnosing occupations	1 105	1 105	1 105	1 105	8 449	8 449	8 449	8 449	8 256	8 369	8 369	8 256	26 336	19 502	19 502	7 005
Health assessment and treating occupations	9 713	6 474	6 474	6 474	9 259	8 888	11 925	4 585	6 692	6 591	6 591	6 692	8 212	8 352	6 732	5 017
Registered nurses	11 635	11 635	11 635	11 635	6 670	4 664	5 296	6 670	6 778	6 668	6 968	7 693	10 467	10 467	10 467	10 467
Other health assessment and treating occupations	2 831	2 953	35	11 853	4 146	4 073	5 299	2 716	3 910	3 859	6 345	3 973	4 711	4 669	7 075	5 436
Teachers, except postsecondary	2 260	2 260	2 260	2 260	11 167	11 070	4 803	12 005	5 898	5 418	8 868	4 285	9 861	9 344	18 740	5 436
Social scientists and urban planners	9 821	9 821	9 821	9 821	7 960	9 160	4 803	415	5 261	5 385	5 261	3 982	5 819	5 575	7 208	3 457
Social and recreation workers	5 382	5 155	8 043	6 005	7 892	8 302	7 005	9 221	15 840	15 840	15 840	15 840	19 986	20 332	15 236	8 835
Lawyers and judges	6 037	4 942	6 037	6 005	9 358	9 959	8 800	9 221	5 988	5 654	7 561	7 034	8 911	8 919	9 812	9 288
Writers, artists, entertainers, and athletes	5 382	5 155	8 043	6 005	9 358	9 959	8 800	9 221	5 988	5 654	7 561	7 034	8 911	8 919	9 812	9 288
Other professional specialty occupations	5 382	5 155	8 043	6 005	9 358	9 959	8 800	9 221	5 988	5 654	7 561	7 034	8 911	8 919	9 812	9 288
Technical, sales, and administrative support occupations	5 642	5 595	6 690	5 734	6 357	6 286	6 581	6 475	4 866	4 805	5 308	4 919	5 738	5 746	5 622	5 408
Technicians and related support occupations	6 834	6 394	20 737	7 874	8 307	8 622	6 734	3 205	4 998	4 781	5 710	4 139	9 351	9 543	6 413	9 124
Health technologists and technicians	790	1 005	1 005	7 970	7 209	7 586	5 364	3 205	4 865	4 621	5 595	4 090	6 090	6 309	3 294	10 175
Licensed practical nurses	790	1 005	1 005	7 970	7 209	7 586	5 364	3 205	4 865	4 621	5 595	4 090	6 090	6 309	3 294	10 175
Other health technologists and technicians	790	1 005	1 005	7 970	7 209	7 586	5 364	3 205	4 865	4 621	5 595	4 090	6 090	6 309	3 294	10 175
Engineering and science technicians	8 200	7 048	12 005	9 505	7 316	7 513	7 538	7 538	6 582	6 531	7 434	6 005	8 724	9 057	4 496	8 056
Electrical and electronic technicians	7 446	4 692	12 005	9 505	7 316	7 513	7 538	7 538	6 582	6 531	7 434	6 005	8 724	9 057	4 496	8 056
Industrial and mechanical engineering technicians	8 385	8 385	8 385	8 385	8 302	8 302	8 302	8 302	9 099	9 099	9 099	9 099	8 533	8 533	8 533	8 056
Drafting and surveying technicians	10 585	10 585	10 585	10 585	8 302	8 302	8 302	8 302	9 099	9 099	9 099	9 099	8 533	8 533	8 533	8 056
Other engineering and science technicians	6 750	6 377	27 881	7 004	5 604	5 512	5 512	5 512	3 921	3 871	7 435	6 005	9 271	9 271	4 496	9 767
Technicians, except health, engineering, and science	8 463	8 463	8 463	8 463	5 667	6 247	3 205	3 205	6 133	5 751	9 043	4 637	10 319	10 412	9 006	9 767
Airplane pilots and navigators	10 975	33 005	33 005	10 975	13 746	13 982	6 706	3 205	5 605	305	305	5 605	8 005	8 005	8 005	8 005
Air traffic controllers and broadcast equipment operators	6 255	6 339	4 825	7 004	6 728	6 706	6 706	3 205	8 096	7 778	12 005	5 605	10 319	10 412	9 006	9 767
Computer programmers	6 255	6 339	4 825	7 004	6 728	6 706	6 706	3 205	8 096	7 778	12 005	5 605	10 319	10 412	9 006	9 767
Other technicians, except health, engineering, and science	6 255	6 339	4 825	7 004	6 728	6 706	6 706	3 205	8 096	7 778	12 005	5 605	10 319	10 412	9 006	9 767

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Other repair services				Hotels and lodging places				Other personal services, including private household				Entertainment and recreation services			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Technical, sales, and administrative support occupations—Con.																
Sales occupations	5 281	5 371	5 436	4 883	6 694	6 716	6 324	6 787	4 304	4 241	4 647	4 500	3 868	3 843	4 426	3 404
Supervisors and proprietors, sales occupations	9 142	9 500	—	6 855	8 307	8 291	8 192	6 761	7 819	7 961	5 400	6 616	7 944	7 666	11 278	4 712
Salaried	11 012	11 235	—	8 855	9 096	9 219	8 192	6 761	7 979	8 166	5 965	7 020	8 146	7 711	13 729	5 525
Self-employed	7 093	7 574	—	—	4 999	4 999	—	—	7 380	7 334	3 762	6 114	6 599	7 356	—	2 476
Sales representatives, finance and business services	4 652	4 709	5 330	435	8 119	8 211	7 694	5 566	6 641	6 817	6 096	6 141	3 080	3 141	2 352	—
Sales representatives, commodities, except retail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services	5 247	5 141	10 058	9 323	6 125	6 046	6 149	6 968	4 120	4 038	4 637	4 359	3 911	3 878	4 473	3 559
Cashiers	7 408	7 294	11 165	18 872	6 149	6 082	6 201	6 827	3 664	3 545	4 284	3 228	3 851	3 789	4 761	3 347
Other sales occupations, retail and personal services	4 587	4 599	8 750	762	5 379	4 864	4 763	10 250	4 206	4 122	4 749	4 724	4 159	4 235	2 603	4 812
Sales related occupations	437	—	—	—	8 505	8 505	—	—	8 767	9 880	5 221	—	9 472	9 278	—	—
Administrative support occupations, including clerical	5 647	5 597	6 562	5 785	6 278	6 190	6 644	6 394	5 263	5 211	5 718	5 368	6 954	6 974	6 353	7 270
Supervisors, administrative support occupations	8 449	8 626	4 048	11 023	8 670	8 675	10 364	8 140	8 592	8 902	5 890	11 188	10 941	10 977	9 335	8 570
Computer equipment operators	8 134	8 472	6 570	9 885	8 781	8 322	11 788	—	6 732	7 008	4 551	5 005	8 440	8 286	9 857	11 306
Secretaries, stenographers, and typists	5 702	5 645	5 685	5 626	7 716	7 565	6 846	7 440	6 239	6 248	6 068	5 885	7 673	7 794	5 782	7 866
Secretaries	5 761	5 694	6 159	5 632	7 716	7 711	7 161	7 866	6 459	6 470	6 169	6 189	7 844	7 920	6 096	8 369
Stenographers and typists	4 944	4 973	3 559	5 571	5 050	5 056	5 480	3 869	4 366	4 256	5 440	4 626	6 168	6 462	4 966	5 123
Receptionists	3 818	3 599	8 155	4 432	5 467	5 352	5 056	5 292	3 985	4 000	4 054	3 937	4 159	4 135	4 395	3 002
Other information clerks	3 118	3 118	—	1 499	5 338	5 252	5 638	5 749	3 176	3 199	2 552	4 957	4 101	4 311	8 311	7 445
File clerks	3 451	3 354	3 375	5 200	4 761	4 796	4 527	4 165	3 510	3 758	1 003	4 699	4 526	4 504	2 991	7 489
Other records processing occupations, except financial	6 336	6 394	5 486	5 363	6 714	6 802	6 925	6 572	4 970	4 731	6 257	4 970	6 164	6 465	4 133	6 975
Bookkeepers, accounting, and auditing clerks	5 669	5 646	7 605	8 838	7 468	7 360	9 462	7 379	6 522	6 539	8 868	6 173	7 608	7 568	7 965	7 590
Payroll and timekeeping clerks	8 969	8 946	14 045	8 005	8 215	8 095	8 345	6 928	7 292	7 292	11 427	10 118	7 910	7 746	10 156	7 751
Other financial records processing occupations	8 862	8 736	8 784	7 005	5 982	5 703	10 935	5 212	5 824	5 503	8 547	7 366	6 987	6 780	10 925	10 886
Telephone operators	7 284	7 121	8 773	5 440	5 996	5 793	6 144	6 202	7 793	7 963	4 408	7 965	5 383	5 480	5 084	5 689
Rail and message distributing occupations	4 462	3 767	6 707	10 095	6 306	5 808	7 044	9 950	4 729	4 068	5 468	7 965	4 967	5 132	4 301	4 806
Production coordinators and expeditors	6 490	6 590	6 085	5 193	6 809	6 809	3 665	5 140	5 383	5 261	5 539	3 371	8 790	7 502	12 549	8 996
Traffic, shipping, and receiving clerks	6 279	6 803	8 805	9 386	6 813	7 174	3 005	8 005	5 370	5 261	5 794	6 065	6 860	7 349	5 314	6 500
Trucking, shipping, and receiving clerks	6 279	6 803	8 805	9 386	6 813	7 174	3 005	8 005	5 370	5 261	5 794	6 065	6 860	7 349	5 314	6 500
Other material recording, scheduling, and dispatching clerks	7 416	7 444	6 751	9 181	5 844	5 838	4 843	5 523	5 470	5 376	4 807	4 763	6 250	6 553	4 443	5 855
Advisers and investigators	7 061	7 453	2 075	9 005	8 730	8 720	4 929	6 617	5 557	5 492	4 807	4 763	7 580	7 657	2 659	6 136
Data-entry keyers	7 946	7 726	9 585	5 905	8 764	8 384	6 933	8 430	7 421	6 823	12 701	6 505	8 736	8 077	10 486	11 086
Other administrative support occupations	5 240	5 222	6 583	6 419	5 940	5 803	6 115	6 469	4 547	4 363	5 973	4 948	5 656	5 571	6 397	7 301
Service occupations	4 361	4 298	4 072	2 566	3 958	3 707	4 485	4 152	4 187	4 458	3 379	4 254	4 237	4 187	4 450	4 305
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	2 805	—	—	—	4 591	4 463	4 394	6 174	2 674	2 364	2 983	3 357	—	—	—	—
Guards	—	—	—	—	4 458	4 310	4 394	6 174	2 512	2 221	4 143	2 224	3 033	2 947	4 676	2 594
Other protective service occupations	—	—	—	—	9 727	9 727	—	10 732	2 553	2 243	4 945	2 577	3 024	2 929	4 881	2 594
Service occupations, except protective and household	4 377	4 298	4 072	2 566	3 956	3 704	4 485	4 148	5 702	5 753	4 964	5 614	4 487	4 387	650	—
Food preparation and service occupation	5 896	5 658	8 005	—	5 222	5 075	5 472	5 162	4 500	4 096	7 071	3 692	4 283	4 238	4 445	4 339
Health service occupations	6 005	6 005	—	—	4 165	4 220	4 519	3 507	4 110	3 648	5 157	3 998	4 561	4 156	4 454	4 194
Cleaning and building service occupations, except household	3 759	3 344	4 384	2 566	3 998	3 647	4 319	4 148	3 362	3 174	3 395	4 021	4 236	4 021	4 774	4 774
Personal service occupations	5 102	5 669	2 121	—	3 040	2 898	4 234	3 413	5 963	5 951	5 604	5 963	4 422	4 392	4 145	4 628
Farming, forestry, and fishing occupations	1 541	1 577	—	—	2 689	2 515	1 827	6 018	3 633	3 450	3 820	5 633	4 353	4 310	5 085	4 549
Precision production, craft, and repair occupations	5 590	5 417	6 401	5 916	6 916	6 275	8 478	5 875	4 626	4 503	5 345	5 034	7 613	7 361	8 256	9 440
Mechanics and repairers	6 799	6 586	7 757	5 662	6 992	7 470	3 705	6 723	6 326	6 407	5 005	5 825	7 334	7 332	7 154	5 200
Supervisors, mechanics and repairers	12 034	11 647	14 005	9 005	11 546	11 546	—	—	21 085	21 085	—	—	3 523	3 523	—	—
Automobile mechanics, including body	6 161	5 941	5 047	8 005	12 144	12 144	—	—	2 464	2 464	—	—	4 327	4 327	—	3 115
Industrial machinery repairers	6 216	6 243	—	6 431	7 421	7 421	—	7 938	6 210	6 210	—	5 005	8 600	8 726	—	—
Electronic repairers, communications and industrial equipment	6 795	6 760	7 762	4 033	—	—	—	—	2 705	2 705	—	—	7 933	8 196	6 861	6 005
Heating, air conditioning, and refrigeration mechanics	12 930	9 961	7 682	5 867	6 626	7 038	3 705	1 255	2 245	2 245	—	—	—	—	—	—
Other mechanics and repairers	6 533	6 391	7 682	5 867	5 312	5 099	7 553	8 509	6 075	6 170	5 005	6 176	7 264	6 383	8 493	6 095
Construction trades	5 970	5 924	4 505	6 555	5 312	5 099	7 553	8 509	4 005	4 005	1 961	10 620	6 253	6 112	3 628	7 542
Supervisors, construction occupations	6 079	6 375	—	—	11 090	12 317	4 708	8 509	6 574	7 517	7 730	2 005	6 326	4 943	3 005	12 565
Carpenters	10 167	10 167	—	—	793	921	—	11 197	3 836	3 494	6 275	16 005	5 619	5 507	—	7 680
Electricians	4 346	3 895	—	—	4 901	—	—	—	12 885	4 405	—	—	5 791	5 791	—	—
Painters, construction and maintenance	13 005	13 005	—	—	1 289	4 901	—	—	1 636	1 636	1 292	—	7 772	7 832	3 766	5 926
Plumbers, pipefitters, and steamfitters	—	—	—	—	1 289	1 289	—	—	6 005	6 005	—	—	—	—	—	—
Other construction trades	4 125	4 125	—	—	6 658	4 766	—	—	4 243	4 243	—	—	1 070	1 070	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Other repair services				Hotels and lodging places				Other personal services, including private household				Entertainment and recreation services			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extrusive occupations	8 785	8 785	—	—	6 055	6 055	—	—	4 609	4 478	—	—	8 109	7 943	9 179	—
Precision production occupations	8 873	8 743	5 402	6 103	7 124	6 577	8 715	5 430	6 577	4 478	5 388	5 007	8 109	7 943	9 179	10 806
Supervisors, production occupations	8 363	8 019	—	8 005	7 759	7 220	9 042	4 797	7 513	7 455	7 145	5 007	8 109	7 943	9 179	10 806
Precision metalworking occupations	6 309	6 023	8 873	—	7 333	6 661	8 005	—	4 237	3 719	4 829	6 584	8 109	7 943	9 179	10 806
Tool and die makers	1 550	1 550	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Machinists	10 968	10 968	—	—	—	—	—	—	4 588	4 540	3 773	6 584	8 109	7 943	9 179	10 806
Sheet metal workers	—	—	—	—	8 005	—	8 005	—	—	—	—	—	8 109	7 943	9 179	10 806
Other precision metal workers	5 740	5 252	8 873	—	6 661	6 661	—	—	—	—	—	—	8 109	7 943	9 179	10 806
Precision textile, apparel, and furnishings machine workers	4 784	4 666	5 313	6 333	5 435	5 290	7 755	3 531	3 880	3 129	6 565	4 656	8 109	7 943	9 179	10 806
Precision food production occupations	4 665	4 295	7 635	4 810	5 581	4 989	5 191	7 887	4 232	4 093	5 053	4 656	8 109	7 943	9 179	10 806
Precision inspectors, testers, and related workers	32 122	37 103	6 385	—	—	—	—	—	3 957	4 684	2 807	696	8 109	7 943	9 179	10 806
Plant and system operators	1 405	1 405	—	—	6 286	5 489	7 556	8 435	4 187	4 633	2 005	6 765	8 109	7 943	9 179	10 806
Other precision production occupations	4 200	4 042	4 781	5 219	6 672	6 672	—	—	4 109	4 415	—	—	8 109	7 943	9 179	10 806
Operators, fabricators, and laborers																
Machine operators, assemblers, and inspectors	5 609	5 724	5 139	4 942	4 595	4 342	4 883	4 514	5 001	4 757	5 434	4 934	6 001	6 110	4 303	6 001
Machine operators and tenders, except precision	5 782	5 896	5 370	5 346	4 651	4 387	4 957	4 531	5 029	4 802	5 411	4 957	6 001	6 110	4 303	6 001
Metalworking and plastic working machine operators	5 899	5 963	4 127	5 979	4 625	4 406	4 861	4 534	5 009	4 776	5 395	4 950	6 001	6 110	4 303	6 001
Fabricating machine operators, n.e.c.	5 540	5 967	2 378	1 618	6 219	5 265	8 605	—	3 943	3 166	6 665	—	6 001	6 110	4 303	6 001
Metal and plastic processing and woodworking machine operators	7 327	7 327	—	—	4 505	4 505	—	—	1 494	1 494	—	—	6 001	6 110	4 303	6 001
Printing machine operators	9 942	12 065	9 305	7 005	4 362	3 160	14 158	1 790	2 591	2 324	2 904	3 791	5 916	6 620	—	—
Textile sewing machine operators	2 825	2 825	—	—	3 475	3 475	—	—	5 946	5 843	6 278	4 973	5 531	5 778	—	7 043
Textile machine operators	7 366	8 067	—	—	4 159	1 177	5 401	9 005	6 501	7 433	5 124	1 045	8 195	8 195	—	4 839
Laundry and dry cleaning machine operators	4 766	4 775	3 116	6 173	6 305	6 249	—	8 183	5 243	5 104	5 879	5 226	3 948	3 725	2 331	4 839
Packaging and filling machine operators	3 693	2 217	6 315	—	4 518	4 323	4 706	4 507	4 924	4 604	5 524	5 043	5 293	4 505	6 887	6 927
Furnace, kiln, and oven operators, except food	5 164	5 164	—	—	—	—	—	—	4 042	3 688	5 626	645	5 293	4 505	6 887	6 927
Other specified machine operators	4 240	4 237	4 805	12 005	5 156	6 212	—	—	4 673	3 059	5 942	4 811	3 122	3 122	—	—
Miscellaneous and not specified machine operators	7 849	7 951	5 191	6 379	5 771	5 629	6 062	5 624	5 647	5 268	6 247	4 742	5 472	5 613	4 737	5 170
Fabricators, assemblers, and hand working occupations	5 691	5 817	6 727	4 649	3 537	3 470	7 550	3 678	5 102	5 231	4 938	4 278	4 990	5 037	828	6 741
Welders and cutters	6 156	6 495	6 273	3 234	6 005	6 005	—	—	8 891	8 891	—	—	11 076	11 076	—	—
Solders and brazers	5 262	4 420	8 431	2 722	3 505	3 505	—	3 505	6 706	7 606	—	—	4 005	—	—	—
Assemblers	5 014	5 028	8 147	6 082	3 184	2 855	7 550	3 703	4 997	5 077	5 089	4 069	4 414	4 265	828	6 699
Hand working occupations	8 319	8 319	—	—	4 051	4 051	—	—	5 177	5 501	4 098	8 005	5 763	6 027	—	—
Production inspectors, testers, samplers, and weighers	4 008	4 427	655	—	5 824	3 887	7 308	5 365	5 427	5 215	5 821	5 438	7 214	5 713	8 005	15 005
Graders and sorters, except agricultural	2 435	2 435	—	—	3 646	3 868	3 003	85	6 324	7 038	5 463	6 005	2 582	2 582	—	—
Other production inspectors, testers, samplers, and weighers	5 896	7 591	655	—	6 141	3 891	7 637	7 345	5 403	5 169	5 831	5 429	9 207	7 612	8 005	15 005
Transportation and material moving occupations																
Transportation occupations	5 478	5 260	9 512	1 338	5 362	5 330	5 199	4 780	4 845	4 876	5 271	3 652	4 885	5 202	3 259	2 062
Motor vehicle operators	5 463	5 213	9 512	1 338	5 301	5 396	5 199	3 194	4 795	4 890	4 917	3 578	4 824	5 143	3 259	2 062
Truck drivers	5 539	5 297	9 512	1 338	5 293	5 386	5 199	3 194	4 802	4 862	5 112	3 578	4 926	5 285	3 259	2 062
Driver-sales workers	6 020	5 783	11 977	1 338	5 011	4 916	4 931	4 538	4 609	4 538	4 609	3 318	4 538	5 738	3 978	1 234
Other motor vehicle operators	4 865	4 621	5 505	—	4 535	4 535	—	3 194	6 555	6 048	10 871	4 433	3 491	4 165	253	—
Rail and water transportation occupations	1 655	1 655	—	—	5 562	5 745	5 747	—	3 940	4 364	2 990	3 600	4 563	4 878	2 954	2 155
Material moving occupations	—	—	—	—	6 005	6 005	—	—	4 189	9 140	—	—	2 637	2 482	5 005	2 805
Supervisors, material moving equipment operators	5 595	5 595	—	—	6 873	3 889	—	20 005	6 032	4 344	8 927	4 710	6 039	6 174	—	—
Crane, hoist, and winch operators	—	—	—	—	—	—	—	—	1 223	1 223	—	—	9 005	9 005	—	—
Excavating, grading, and dozer machine operators	15 005	15 005	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other material moving equipment operators	4 842	4 842	—	—	6 873	3 889	—	20 005	6 559	5 170	8 927	4 710	5 789	5 873	—	—
Handlers, equipment cleaners, helpers, and laborers																
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	4 716	4 947	2 672	3 444	3 779	3 461	4 165	4 316	4 700	4 202	5 790	4 982	4 382	4 496	4 018	4 434
Helpers, craft and production	—	—	—	—	4 824	3 080	6 941	9 005	5 547	2 471	7 505	—	11 322	11 322	—	—
Construction laborers	3 118	3 341	3 182	956	4 174	2 563	4 263	6 037	4 255	4 618	3 570	7 418	3 322	5 687	6 602	7 505
Freight, stock, and material handlers	2 505	2 505	—	—	6 305	6 305	—	—	3 230	3 098	6 005	3 505	5 309	5 309	—	—
Grocery and service station occupations, and equipment cleaners	10 572	11 169	—	9 005	5 031	5 199	6 550	7 415	5 850	3 497	9 356	4 742	6 019	6 121	5 216	4 381
Hand packers and packagers	4 832	5 187	335	—	4 302	4 438	3 813	7 005	3 479	2 946	5 692	405	1 803	1 803	—	—
Hand packers and packagers, except construction	4 938	5 079	2 005	4 358	4 281	5 909	3 808	4 555	5 242	5 075	5 734	4 514	1 803	1 803	2 770	4 743
Laborers, except construction	5 331	5 414	1 505	4 189	3 476	3 161	4 060	3 550	4 553	4 096	5 427	5 082	3 811	3 906	3 470	4 193

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

(Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

	Professional and related services, total				Hospitals				Health services, except hospitals				Educational services, government			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over	19 275	20 215	11 324	14 103	17 029	18 233	10 600	13 951	36 840	38 403	15 277	28 550	15 379	15 974	11 571	11 266
Managerial and professional specialty occupations	24 548	24 985	16 595	21 369	27 391	27 798	17 553	26 995	48 533	48 714	33 107	48 226	18 529	18 828	15 926	15 412
Executive, administrative, and managerial occupations	23 661	24 174	18 245	18 907	23 366	24 104	16 649	19 527	22 614	23 078	18 221	20 397	23 369	23 800	20 339	19 878
Officials and administrators, public administration	18 815	19 300	15 848	14 743	17 050	17 857	11 672	23 806	—	—	—	—	20 771	21 129	18 386	19 105
Financial managers	25 402	25 707	19 483	23 182	23 416	23 447	21 229	23 806	23 239	23 537	20 243	22 832	25 261	25 713	19 660	27 970
Managers, marketing, advertising, and public relations	25 757	25 909	20 094	18 166	26 793	26 898	15 005	22 005	23 469	23 449	19 791	22 853	20 690	21 555	12 586	13 866
Administrators, education and related fields	23 586	23 907	20 983	20 623	24 754	25 371	17 385	21 365	18 432	19 351	14 571	10 005	24 459	24 784	21 806	21 878
Managers, medicine and health	25 701	26 415	18 234	20 975	26 349	27 306	17 356	21 365	24 375	24 669	19 593	19 874	—	—	—	—
Other specified managers	20 929	21 474	16 815	17 897	20 475	21 108	16 821	17 775	18 884	18 599	19 993	13 716	22 038	22 487	18 878	24 376
Managers and administrators, n.e.c.	24 043	24 706	17 165	18 780	24 052	24 652	17 699	21 053	24 174	24 772	18 596	13 716	21 486	22 224	16 078	15 119
Salaries	23 755	24 400	17 195	18 313	23 926	24 512	17 699	18 713	23 856	24 422	18 356	23 575	21 486	22 224	16 078	15 119
Self-employed	33 032	33 896	15 476	32 642	56 466	57 677	17 699	169 354	28 896	29 978	21 271	24 628	—	—	—	—
Management related occupations	33 025	33 534	15 140	17 214	17 259	17 736	13 393	15 263	16 489	16 783	13 804	15 305	17 651	18 067	15 435	14 129
Accountants and auditors	24 204	24 619	15 310	18 617	17 474	17 895	12 890	17 409	16 669	16 766	14 717	16 562	17 288	17 783	14 528	14 953
Personnel, training, and labor relations specialists	18 063	18 910	14 396	13 286	16 837	17 999	12 870	13 004	14 924	15 259	13 633	7 952	17 996	17 777	14 625	13 305
Buyers and purchasing agents	16 072	16 278	14 315	12 975	15 046	15 108	15 072	12 138	14 217	14 232	12 672	15 305	17 886	17 886	16 322	13 932
Inspectors and compliance officers	15 503	15 565	15 294	12 748	15 625	16 190	14 052	11 251	14 913	15 108	13 746	12 570	16 628	16 670	16 175	14 418
Other management related occupations	23 278	23 740	16 606	18 619	22 991	23 621	12 759	18 249	25 209	25 804	13 738	28 174	18 391	18 478	17 700	13 786
Professional specialty occupations	24 778	25 196	16 093	21 994	28 697	29 066	17 897	28 793	51 613	51 712	36 966	52 146	17 570	17 856	14 798	14 536
Engineers, architects, and surveyors	25 332	25 610	18 815	21 534	18 740	19 189	14 476	16 520	28 121	27 716	16 019	15 485	18 777	19 408	14 346	14 718
Architects	26 142	26 455	20 241	21 200	23 982	23 587	42 825	28 005	27 842	27 716	—	—	21 673	21 982	18 006	14 043
Engineers	25 959	26 292	19 167	22 847	18 458	18 943	13 248	16 206	28 375	28 167	16 019	15 485	18 324	19 007	13 251	14 843
Civil engineers	25 989	26 214	20 498	24 304	18 703	19 150	12 547	13 240	20 804	20 658	18 905	11 995	18 721	19 417	12 991	24 314
Electrical and electronic engineers	24 667	24 958	19 751	22 463	18 553	19 162	11 112	13 240	23 422	24 151	15 444	27 080	17 313	17 568	11 613	14 455
Industrial engineers	22 041	22 479	16 732	17 400	16 732	17 271	13 725	17 265	20 385	21 120	17 358	20 005	18 595	19 421	12 618	—
Mechanical engineers	24 051	24 405	15 815	19 164	17 077	17 492	15 047	7 835	17 448	17 837	15 099	12 407	18 471	18 757	15 015	15 305
Other engineers	26 962	27 379	19 733	23 194	19 606	20 011	13 139	19 983	34 683	33 760	15 962	13 632	18 790	19 924	13 330	12 450
Surveyors and mapping scientists	16 708	16 880	8 943	13 043	65 005	65 005	—	—	8 184	8 184	—	—	20 273	20 475	24 005	—
Computer systems analysts and scientists	20 296	20 512	18 062	18 797	20 778	20 952	18 785	26 749	31 985	31 943	20 855	23 255	17 225	17 432	13 455	15 201
Operations and systems researchers and analysts	21 899	22 512	15 030	14 618	17 866	18 046	15 557	13 080	28 862	30 191	22 543	18 365	17 017	17 854	12 523	12 999
Mathematical scientists	25 611	26 256	17 420	23 517	19 483	19 754	19 245	18 426	18 251	18 237	21 698	18 165	15 061	15 453	14 255	19 987
Natural scientists	24 046	24 530	17 350	27 815	33 933	35 700	18 527	41 496	36 983	37 988	21 698	33 429	15 342	15 758	14 853	13 842
Chemists, except biochemists	18 248	18 557	17 461	17 099	19 969	20 476	17 560	14 009	18 773	18 406	25 711	14 709	13 445	13 264	21 973	20 641
Chemists, biochemists	25 163	25 598	17 321	30 680	36 219	37 804	18 743	47 999	40 764	41 804	21 042	39 163	15 671	15 813	10 431	11 510
Health diagnosing occupations	52 050	52 349	42 293	52 210	41 721	42 172	32 399	42 626	56 238	56 084	48 805	59 163	37 700	38 380	26 944	25 785
Health assessing and treating occupations	16 035	16 410	12 913	13 551	15 660	15 984	12 972	13 454	18 600	19 157	13 232	15 550	15 280	15 504	11 945	8 772
Registered nurses	16 447	16 758	13 792	14 519	15 924	16 139	13 947	14 726	20 477	21 572	12 578	13 669	16 359	16 395	9 106	7 064
Other health assessment and treating occupations	15 800	16 210	12 403	12 947	15 489	15 883	12 372	12 572	17 870	18 264	13 601	16 195	15 120	15 372	12 366	9 041
Teachers, except postsecondary	15 958	16 167	13 975	13 514	18 489	19 034	12 619	12 413	10 710	10 907	9 261	7 906	16 649	16 869	14 558	14 242
Social scientists and urban planners	21 264	21 622	15 608	17 492	18 970	19 680	12 603	16 578	22 924	23 423	14 393	18 503	19 641	19 701	19 263	17 741
Social and recreation workers	13 580	14 107	11 984	11 200	15 690	15 923	14 437	13 820	13 024	13 329	11 413	11 099	15 551	16 343	12 843	11 857
Lawyers and judges	38 768	39 138	24 801	30 238	29 862	30 487	29 635	—	39 038	39 437	18 060	44 251	24 083	24 400	20 789	5 062
Writers, artists, entertainers, and athletes	14 393	14 645	10 828	12 027	16 546	16 764	14 614	13 821	18 923	19 587	8 769	15 422	12 030	12 205	11 838	9 079
Other professional specialty occupations	16 491	16 765	13 147	13 284	17 031	17 071	14 714	19 306	11 534	11 469	12 327	13 247	19 824	20 264	15 851	15 519
Technical, sales, and administrative support occupations	11 374	11 723	9 334	9 404	12 324	12 580	10 961	11 191	12 536	12 873	10 007	10 031	8 440	8 771	6 871	6 649
Technical and related support occupations	12 806	12 949	11 530	11 845	13 490	13 628	12 047	12 957	13 991	14 215	11 529	12 023	9 649	9 811	8 764	8 572
Health technicians and technicians	13 447	13 617	11 972	12 817	13 416	13 544	12 472	12 996	14 158	14 395	11 529	12 355	10 979	11 121	10 137	7 829
Licensed practical nurses	10 592	10 565	10 881	11 188	10 760	10 676	11 252	10 816	9 710	9 879	9 107	9 681	9 466	9 158	8 005	8 102
Other health technologists and technicians	13 746	13 916	12 156	12 943	13 705	13 840	12 285	13 168	14 694	14 890	12 247	12 508	10 999	11 145	10 007	7 792
Engineering and science technicians	12 802	12 941	10 997	11 458	13 561	14 025	10 587	11 562	13 196	13 249	7 015	12 810	8 539	8 657	7 908	7 196
Electrical and electronic technicians	14 251	14 428	12 672	12 356	13 412	13 550	12 837	9 924	12 827	13 306	7 319	13 721	12 094	12 230	10 793	11 964
Industrial and mechanical engineering technicians	15 011	14 895	9 735	10 396	15 786	16 028	12 555	10 345	8 449	8 449	3 015	14 045	14 045	14 004	15 005	—
Drafting and surveying technicians	13 632	13 690	12 251	12 301	11 766	12 247	10 407	12 219	13 993	12 202	21 155	22 005	10 489	10 489	6 025	8 191
Other engineering and science technicians	10 596	10 852	8 860	8 542	13 949	14 393	9 758	13 291	13 227	13 461	11 437	11 437	7 449	7 449	5 980	5 980
Technicians, except health, engineering, and science	11 936	12 131	10 478	10 253	14 433	14 939	10 940	13 238	13 163	13 490	11 924	5 926	10 136	10 335	9 330	8 154
Airplane pilots and navigators	21 491	21 739	23 005	9 100	15 744	13 181	23 005	7 005	20 425	20 425	—	—	25 379	25 379	13 005	13 005
Air traffic controllers and broadcast equipment operators	7 956	8 319	4 627	4 629	12 413	13 220	8 758	3 005	13 423	13 423	—	—	6 477	6 748	5 057	2 430
Computer programmers	12 353	12 421	11 641	12 321	14 394	14 465	12 723	11 239	12 829	13 228	2 830	10 197	10 639	10 682	13 186	10 748
Other technicians, except health, engineering, and science	11 834	12 054	10 517	9 835	14 488	14 385	10 361	14 633	13 169	13 473	10 488	5 175	10 059	10 287	9 259	7 652

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Professional and related services, total				Hospitals				Health services, except hospitals				Educational services, government			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed males 16 years and over—Con																
Technical, sales, and administrative support occupations—Con																
Sales occupations																
Supervisors and proprietors, sales occupations	16 278	16 897	9 606	11 192	13 915	15 186	10 624	9 810	18 715	18 785	13 692	15 370	8 990	9 268	7 031	6 621
Salaries	18 684	19 259	12 242	15 230	15 338	15 671	11 416	15 457	19 685	19 738	13 008	20 910	14 846	15 317	11 196	12 126
Self-employed	23 093	22 625	12 539	25 008	30 844	23 436	58 005	—	21 624	21 624	12 858	19 005	17 326	17 570	20 005	—
Sales representatives, finance and business services	28 859	28 668	21 005	18 042	28 587	28 587	9 856	9 451	18 010	17 010	13 959	12 714	5 975	6 185	4 922	2 717
Sales representatives, commodities, except retail	12 955	13 474	8 782	8 942	13 310	14 812	9 856	9 451	18 010	17 010	13 959	12 714	5 975	6 185	4 922	2 717
Sales workers, retail and personal services	5 423	5 329	6 009	5 421	7 812	7 972	7 303	9 892	10 977	11 839	11 005	12 714	3 680	3 778	3 403	1 888
Cashiers	15 078	15 451	10 648	10 883	18 344	20 081	9 802	13 618	18 892	18 892	14 300	12 714	9 214	9 457	7 580	4 125
Other sales occupations, retail and personal services	14 815	15 414	12 890	11 836	8 478	12 213	7 035	5 705	7 501	7 501	7 501	—	17 554	17 942	16 917	14 069
Administrative support occupations, including clerical																
Supervisors, administrative support occupations	9 256	9 615	8 026	7 727	10 309	10 534	7 785	9 229	9 339	9 647	8 319	7 978	7 586	7 958	6 487	6 264
Computer equipment operators	17 938	18 757	13 027	13 830	15 371	15 878	13 085	14 061	15 098	15 610	12 825	11 132	15 187	15 976	10 494	12 162
Secretaries, stenographers, and typists	10 024	10 134	10 192	9 278	11 531	11 781	11 403	11 371	10 495	10 668	8 752	9 402	8 929	9 216	8 782	7 383
Secretaries	8 866	9 160	7 770	6 568	8 564	8 711	8 545	7 647	7 092	7 358	6 271	10 136	6 628	6 831	6 172	4 562
Stenographers and typists	9 832	10 067	9 049	7 217	8 808	9 010	9 142	6 320	7 179	8 179	6 839	7 852	7 640	7 713	7 940	5 075
Receptionists	6 276	6 323	5 930	5 695	8 174	8 195	7 919	9 940	4 987	4 952	5 062	7 396	4 882	5 164	4 240	4 051
Other information clerks	5 690	5 678	6 136	6 020	8 748	8 671	8 980	8 494	7 796	7 796	5 204	7 486	3 361	3 514	2 999	2 884
File clerks	7 192	7 487	6 144	6 055	8 257	8 697	7 700	7 513	7 612	7 626	6 905	7 626	6 238	6 635	3 425	8 377
Other records processing occupations, except financial	5 109	4 863	5 764	4 365	7 003	6 811	7 231	6 231	2 829	2 795	4 303	1 783	2 999	3 152	2 503	2 656
Bookkeepers, accounting, and auditing clerks	5 248	5 309	5 213	5 168	9 931	10 440	8 152	9 475	17 486	20 546	10 935	2 425	4 494	4 573	4 425	4 355
Payroll and timekeeping clerks	11 340	11 624	9 392	9 373	12 084	12 751	7 078	9 524	9 644	9 775	10 056	7 876	10 845	10 934	11 336	8 771
Other financial records processing occupations	10 408	10 850	9 273	7 830	12 702	13 259	12 019	10 092	9 695	9 695	11 057	9 204	10 413	11 051	9 204	7 036
Telephone operators	12 754	13 417	10 450	10 889	11 130	12 530	8 840	9 159	12 583	12 843	11 057	9 505	14 633	15 107	15 526	11 646
Mail and message distributing occupations	4 855	4 863	5 313	5 160	8 101	7 565	11 714	8 207	4 945	5 523	3 619	2 988	3 807	3 922	3 890	2 483
Production coordinators and expeditors	5 935	5 799	6 297	6 848	7 465	7 347	7 628	6 798	5 887	5 798	4 705	6 923	5 812	5 813	5 930	5 753
Traffic, shipping, and receiving clerks	13 392	13 838	10 575	8 672	12 968	13 553	11 145	9 068	14 181	15 696	4 705	6 923	11 600	11 673	10 321	10 416
Stock and inventory clerks	8 612	8 661	8 864	8 414	8 998	8 993	9 537	9 723	8 081	8 720	9 329	10 337	8 529	8 588	8 757	7 864
Other material recording, scheduling, and distributing clerks	9 014	8 754	10 171	8 332	9 663	9 104	11 492	9 062	8 552	8 951	6 842	6 541	8 404	8 539	8 210	7 846
Adjusters and investigators	10 190	10 288	10 238	9 899	9 888	9 409	11 613	6 004	10 469	11 245	8 406	13 656	8 181	8 424	8 365	5 796
Date-entry keyers	12 934	13 341	11 244	10 917	12 233	12 216	12 819	9 642	10 593	11 392	8 406	14 466	10 432	10 116	11 428	16 595
Other administrative support occupations	8 626	8 773	8 074	7 120	9 771	10 397	7 622	10 026	6 661	6 315	7 015	9 616	5 692	5 780	4 804	3 301
Service occupations	8 367	8 791	7 092	7 089	9 870	10 274	8 686	9 054	8 890	9 053	8 704	7 743	7 972	8 567	6 333	6 224
Private household occupations	8 069	8 249	7 590	7 751	8 950	9 143	8 573	8 453	7 544	7 843	6 485	7 650	8 535	8 901	7 405	7 649
Protective service occupations	8 898	8 577	9 631	8 517	10 654	10 602	10 819	9 724	8 227	8 368	7 781	8 404	8 283	8 049	9 408	8 003
Guards	8 517	8 331	9 390	8 287	10 272	10 162	10 645	9 470	7 969	8 095	7 623	8 165	7 974	7 721	9 121	7 787
Other protective service occupations	14 331	14 395	14 096	12 971	14 468	14 672	13 024	13 282	13 597	13 315	11 845	13 005	14 357	14 217	15 519	17 158
Service occupations, except protective and household	7 998	8 203	7 439	7 704	8 791	8 980	8 429	8 375	7 024	7 826	6 453	7 631	8 553	8 960	7 252	7 631
Food preparation and service occupation	5 896	5 542	6 816	6 901	7 854	7 555	8 404	7 941	5 303	5 056	5 754	6 657	4 321	4 152	4 853	5 279
Health service occupations	9 088	9 368	8 410	8 743	9 123	9 226	8 860	8 838	9 115	9 883	6 867	8 546	8 284	8 370	7 755	6 554
Cleaning and building service occupations, except household	8 257	8 792	7 295	7 792	8 743	9 170	7 941	8 192	6 718	6 876	6 102	7 117	9 096	9 545	7 563	8 031
Personal service occupations	6 217	6 300	6 097	5 705	9 254	9 771	8 484	8 521	7 660	7 669	7 325	9 257	5 114	5 016	5 429	4 570
Farming, forestry, and fishing occupations																
Precision production, craft, and repair occupations	8 105	8 297	7 336	7 821	8 827	9 023	8 502	7 801	6 558	7 140	3 938	5 780	8 795	9 048	7 410	8 468
Mechanics and repairers	13 789	14 082	11 422	11 937	14 532	14 682	13 270	13 403	14 679	14 994	10 579	12 652	12 834	13 116	10 945	10 797
Supervisors, mechanics and repairers	12 579	12 579	10 486	10 757	13 733	13 845	12 600	12 698	10 829	10 990	9 620	12 185	11 834	12 123	9 526	10 129
Automobile mechanics, including body	16 174	16 361	12 994	14 400	16 690	16 865	13 718	13 322	14 768	14 768	10 444	18 317	15 667	15 815	14 716	13 927
Industrial machinery repairers	10 374	11 374	8 589	9 183	13 943	14 247	13 049	14 191	11 302	10 907	18 054	10 272	10 963	11 552	7 422	8 899
Electronic repairers, communications and industrial equipment	12 087	12 201	10 634	11 858	13 039	13 023	13 508	11 415	11 030	11 175	9 313	12 411	11 842	12 129	8 452	13 633
Heating, air conditioning, and refrigeration mechanics	11 126	11 464	9 128	8 073	13 556	14 169	9 333	12 068	7 298	8 300	—	—	10 921	11 148	9 897	7 441
Other mechanics and repairers	13 569	13 618	12 770	12 523	14 096	14 013	14 093	9 892	9 892	9 892	—	—	13 122	13 295	11 716	11 716
Construction trades	12 194	12 748	10 464	11 120	13 548	13 746	11 655	12 803	9 801	10 040	9 249	11 252	11 527	11 742	9 678	10 470
Supervisors, construction occupations	13 368	13 745	10 589	11 158	14 358	14 568	12 525	13 181	10 693	11 032	6 521	8 243	13 043	13 379	10 795	10 916
Carpenters	18 558	18 336	14 054	14 594	18 259	18 434	15 807	17 772	13 998	14 135	9 833	10 802	17 223	17 380	15 360	11 111
Electricians	16 581	16 336	12 076	14 594	18 259	18 434	15 807	17 772	13 998	14 135	9 833	10 802	17 223	17 380	15 360	11 111
Painters, construction and maintenance	14 779	15 009	12 487	14 873	14 770	14 873	13 063	12 747	12 369	13 002	6 530	14 444	14 003	14 340	12 029	10 809
Plumbers, pipefitters, and steamfitters	10 723	11 045	9 333	9 846	12 022	12 328	10 798	10 174	7 826	7 826	4 709	8 451	11 277	11 679	9 902	8 849
Other construction trades	15 322	15 689	12 560	12 986	16 109	16 266	15 536	15 735	12 144	12 837	6 655	10 347	13 689	14 049	11 484	11 015
	12 365	12 935	9 513	12 036	13 550	14 155	10 740	15 735	12 144	12 837	3 998	16 125	13 724	14 051	12 051	12 415

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Professional and related services, total				Hospitals				Health services, except hospitals				Educational services, government			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Precision production, craft, and repair occupations—Con.																
Extraction occupations	17 461	17 743	13 291	—	24 645	24 645	—	—	9 088	9 088	—	—	9 084	7 446	23 005	—
Precision production occupations	15 585	15 875	13 284	13 159	15 599	15 740	14 509	14 659	15 658	15 991	11 752	13 032	14 648	14 878	23 451	12 020
Supervisors, production occupations	16 056	16 378	14 151	14 129	15 855	16 010	14 543	14 692	15 556	16 133	15 217	17 823	14 529	14 935	17 795	11 834
Precision metalworking occupations	14 888	14 976	14 561	13 301	13 752	13 604	14 843	13 326	11 635	11 834	10 151	14 439	14 692	14 702	16 000	11 213
Tool and die makers	16 016	16 339	10 505	2 505	13 268	13 268	—	—	14 605	14 605	—	—	13 311	13 851	10 505	—
Machinists	14 440	14 515	13 788	11 792	14 054	14 350	12 784	8 838	10 494	10 199	12 365	9 885	13 845	13 869	14 392	8 142
Sheet metal workers	17 592	17 700	16 702	16 767	15 500	14 840	17 482	17 681	16 781	16 839	12 365	17 432	18 165	18 594	15 977	14 744
Other precision metal workers	13 829	13 903	14 838	11 880	12 349	11 788	16 270	9 588	12 004	14 613	2 245	12 709	14 206	13 914	20 286	14 655
Precision textile, apparel, and furnishings machine workers	8 775	9 293	7 063	7 450	12 840	13 204	12 147	12 320	17 191	20 269	6 775	10 202	10 735	14 130	6 526	—
Precision food production occupations	10 603	10 576	10 727	10 179	12 840	13 204	12 147	13 420	12 967	13 259	10 865	8 630	7 068	7 052	7 860	6 010
Precision inspectors, testers, and related workers	14 472	15 073	8 869	9 259	18 591	21 004	12 005	15 374	17 405	17 405	19 680	20 566	9 716	11 504	2 671	15 005
Plant and system operators	6 444	16 885	14 615	15 943	16 112	16 214	14 767	15 374	14 656	14 206	19 680	20 566	16 178	16 367	14 992	17 501
Other precision production occupations	15 315	15 647	11 176	12 510	15 401	15 108	15 615	13 934	15 716	16 084	11 175	12 691	11 762	12 166	8 219	10 357
Operators, fabricators, and laborers	8 345	8 449	8 141	7 861	10 172	10 466	9 719	9 448	7 865	7 774	8 347	6 905	8 098	8 249	7 647	7 558
Machine operators and tenders, except precision	9 781	9 942	9 252	8 727	10 640	11 059	9 811	9 881	8 359	8 499	7 179	7 179	9 533	9 712	9 540	8 848
Machine operators and tenders, except precision	9 781	9 942	9 252	8 727	10 640	11 059	9 811	9 881	8 359	8 499	7 179	7 179	9 533	9 712	9 540	8 848
Metalworking and plastic working machine operators	10 813	11 518	8 855	8 236	8 464	8 155	11 363	5 517	9 433	10 131	18 005	7 960	7 672	9 147	1 298	13 911
Fabricating machine operators, n.e.c.	10 728	11 013	18 005	15 585	18 207	18 207	—	13 375	18 005	—	—	—	13 979	13 979	—	—
Metal and plastic processing and woodworking machine operators	8 266	8 005	11 584	9 102	9 180	6 292	22 329	—	9 886	8 311	15 851	34 005	9 588	9 863	10 556	18 005
Printing machine operators	9 759	9 812	10 296	9 233	10 783	10 618	11 760	10 087	9 480	9 988	8 148	1 755	9 413	9 591	9 985	9 264
Textile machine operators	9 361	10 491	7 865	5 405	3 411	4 081	—	15 005	—	—	—	—	2 493	2 493	—	—
Textile sewing machine operators	8 965	9 204	7 067	9 071	9 315	9 266	11 005	3 044	18 648	18 648	—	—	8 643	8 643	—	—
Laundry and dry cleaning machine operators	8 084	7 927	8 473	9 071	8 827	8 814	9 936	9 920	6 069	6 138	5 693	5 968	6 151	6 292	5 619	3 535
Packaging and filling machine operators	5 302	3 961	10 037	8 078	8 078	525	10 402	—	5 740	5 740	—	—	8 886	2 002	13 220	15 505
Furnace, kiln, and oven operators, except food	13 329	13 336	13 262	12 679	13 824	13 895	13 290	12 467	11 339	11 444	12 018	10 205	13 577	13 485	14 018	11 437
Other specified machine operators	7 837	7 782	8 515	8 529	9 409	9 332	10 383	8 675	9 016	9 092	9 366	7 627	6 523	6 621	5 919	5 567
Miscellaneous and not specified machine operators	9 497	7 781	8 704	9 035	10 103	10 890	8 656	10 927	9 077	9 460	7 750	10 281	9 925	10 405	8 233	—
Fabricators, assemblers, and hand working occupations	8 027	8 207	7 302	6 949	11 505	11 988	9 774	8 694	8 068	7 956	8 405	4 269	8 355	8 710	7 517	7 809
Welders and cutters	12 575	13 334	9 481	9 503	13 726	13 894	11 297	10 336	12 393	13 652	9 057	—	9 479	9 951	8 567	8 350
Solders and brazers	5 852	6 609	2 518	905	8 568	8 506	9 170	9 300	11 965	11 965	6 519	4 269	4 496	7 276	705	905
Assemblers	4 519	4 378	5 628	3 809	9 284	9 122	—	6 198	11 240	10 883	14 291	—	5 076	4 953	5 543	—
Hand working occupations	6 839	7 008	6 002	3 677	9 284	9 122	—	6 198	11 240	10 883	14 291	—	6 869	6 601	11 805	1 964
Production inspectors, testers, samplers, and weighers	9 926	10 168	9 948	8 117	12 267	12 844	11 491	8 829	12 894	13 507	1 300	—	6 659	6 900	5 811	9 701
Graders and sorters, except agricultural	2 846	2 739	3 393	4 745	7 303	7 316	13 305	3 335	6 674	7 134	2 345	—	2 849	2 756	2 443	7 081
Other production inspectors, testers, samplers, and weighers	14 808	15 093	11 796	11 254	15 028	15 510	10 211	10 505	15 094	15 617	255	—	12 704	12 587	14 045	12 659
Transportation and material moving occupations	8 316	8 427	7 983	7 968	9 992	10 031	10 142	9 235	8 354	8 269	8 835	7 160	8 000	8 131	7 422	7 664
Transportation occupations	8 053	8 134	7 815	7 816	9 714	9 681	10 057	9 013	8 189	8 189	8 593	6 973	7 904	8 028	7 353	7 596
Motor vehicle operators	8 004	8 076	7 794	7 837	9 704	9 670	10 051	9 119	8 143	8 054	8 593	6 973	7 898	8 021	7 353	7 596
Truck drivers	8 829	8 874	8 990	8 443	9 701	9 723	9 991	9 517	8 337	8 330	8 618	7 027	9 595	9 731	9 204	8 891
Driver-sales workers	8 329	8 516	6 736	7 447	7 146	8 533	5 291	—	7 403	7 403	8 706	12 338	9 345	9 478	8 976	12 316
Other motor vehicle operators	7 721	7 817	7 332	7 559	9 804	9 665	10 347	8 802	7 875	7 553	8 706	6 374	7 623	7 762	6 967	7 220
Rail and water transportation occupations	16 374	16 855	15 997	11 352	11 502	11 313	12 925	1 005	16 996	16 996	14 702	—	12 904	12 904	—	—
Material moving equipment operators	13 180	12 774	11 381	10 275	12 118	12 474	10 892	11 500	13 875	13 292	14 702	11 690	12 158	12 483	11 730	9 533
Supervisors, material moving equipment operators	14 424	14 343	15 210	11 955	12 303	12 158	15 505	11 955	21 282	21 282	15 505	—	16 638	16 873	14 005	—
Crane, hoist, and winch operators	17 329	17 465	19 426	9 930	12 189	15 055	10 105	13 375	13 375	13 375	15 934	13 375	16 893	16 893	—	—
Excavating, grading, and dozer machine operators	11 161	10 873	13 581	8 030	13 814	12 340	14 778	15 262	15 933	16 005	15 934	—	8 872	9 008	—	—
Other material moving equipment operators	12 899	13 678	10 655	10 496	12 011	12 515	10 515	10 672	12 772	12 482	13 896	10 005	11 969	12 319	11 612	9 533
Handlers, equipment cleaners, helpers, and laborers	6 783	6 752	7 126	6 506	9 064	9 250	8 832	8 427	6 074	5 584	8 065	5 955	6 590	6 669	6 650	5 976
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	16 899	17 580	13 708	23 527	19 103	21 747	8 294	—	13 971	12 466	24 005	—	15 707	14 976	17 898	6 542
Helpers, craft and production	6 960	6 968	7 078	6 521	8 012	8 062	8 122	7 263	5 816	6 063	3 554	—	6 711	6 714	6 951	6 542
Construction laborers	9 807	10 710	6 961	6 544	10 583	11 323	9 316	10 357	9 169	9 169	9 696	12 545	5 719	5 379	8 220	3 404
Freight, stock, and material handlers	6 900	6 687	8 388	6 409	7 448	7 723	6 955	6 491	7 476	7 076	9 696	12 545	5 719	5 379	8 220	3 404
Garage and service station occupations, and equipment cleaners	5 593	5 400	6 616	5 388	8 372	8 354	7 924	8 879	7 205	5 624	11 963	9 005	5 007	5 420	4 184	7 145
Hand packers and packagers	3 154	2 701	5 759	5 117	3 922	3 922	14 637	8 089	3 651	3 029	7 347	16 077	3 294	3 652	973	9 505
Laborers, except construction	6 480	6 411	6 794	6 333	9 423	9 530	9 368	9 351	5 639	5 057	7 347	3 717	6 806	6 967	6 467	6 443

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Professional and related services, total				Hospitals				Health services, except hospitals				Educational services, government			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States	8 364	8 345	8 310	7 183	9 422	9 429	8 850	8 433	7 090	7 080	6 590	6 796	9 170	9 220	9 190	6 903
Employed females 16 years and over																
Managerial and professional specialty occupations	11 038	10 890	11 703	10 315	12 350	12 117	12 436	12 747	10 914	10 615	10 944	12 412	11 837	11 780	12 405	10 224
Executive, administrative, and managerial occupations	11 731	11 645	12 549	11 226	13 429	13 556	12 383	12 552	10 944	10 615	10 944	12 412	11 837	11 780	12 405	10 224
Officials and administrators, public administration	11 458	11 458	—	—	11 732	11 732	—	—	10 557	10 557	10 557	10 760	11 837	11 780	12 405	10 224
Financial managers	13 407	13 524	15 087	15 580	13 232	12 980	15 735	14 050	11 693	11 644	14 168	14 490	14 171	14 234	14 809	14 432
Managers, marketing, advertising, and public relations	11 575	11 563	11 615	10 393	12 003	11 819	20 055	8 201	12 787	12 908	9 605	9 105	11 141	11 182	10 134	5 588
Administrators, education and related fields	13 502	13 238	15 436	12 390	14 444	15 513	8 048	10 859	13 369	13 350	11 350	14 224	16 497	16 360	17 728	14 516
Managers, medicine and health	14 263	14 405	12 895	12 667	14 936	14 936	12 993	13 421	13 268	13 280	12 674	14 093	—	—	—	—
Other specified managers	13 307	13 234	14 462	11 437	14 336	14 393	13 923	13 541	11 307	11 368	11 796	8 891	13 852	13 643	15 878	11 358
Managers and administrators, n.e.c.	10 744	10 726	10 842	10 385	13 358	13 358	11 868	12 256	10 438	10 424	10 560	10 036	9 030	9 007	9 087	8 923
Salaries	10 883	10 875	10 888	10 540	13 375	13 375	11 938	12 435	10 717	10 709	10 093	10 093	9 030	9 007	9 087	8 923
Self-employed	7 322	7 100	9 415	6 454	9 299	10 468	2 420	2 293	5 525	5 123	9 797	8 913	—	—	—	—
Management related occupations	10 891	10 846	11 217	10 785	11 564	11 511	11 861	11 714	10 065	9 964	10 904	9 876	11 323	11 304	11 703	10 447
Accountants and auditors	10 895	10 865	10 915	10 701	11 103	11 085	11 531	11 872	9 791	9 787	10 904	9 876	11 323	11 304	11 703	10 447
Personnel, training, and labor relations specialists	11 477	11 489	11 503	10 925	12 259	12 355	12 355	10 524	9 983	10 023	9 810	9 186	11 016	11 004	10 920	11 057
Buyers and purchasing agents	10 783	10 777	10 023	10 959	11 082	11 044	12 029	12 029	8 696	8 572	9 810	9 186	11 332	11 324	12 837	11 278
Inspectors and compliance officers	9 591	9 416	10 400	10 695	11 506	11 506	11 177	—	10 260	10 014	11 562	7 613	9 012	9 369	11 207	9 568
Other management related occupations	10 307	10 187	11 466	10 741	12 007	12 084	11 177	12 622	10 701	11 188	15 047	14 130	11 031	11 108	11 848	10 708
Professional specialty occupations	10 942	10 785	11 589	10 171	12 255	11 990	12 442	12 770	10 872	10 491	10 859	13 036	11 752	11 703	12 253	10 067
Engineers, architects, and surveyors	13 678	13 714	12 472	13 680	13 372	13 511	10 635	15 175	9 493	9 440	7 205	13 725	16 347	16 907	14 089	11 055
Architects	12 344	12 393	12 851	11 032	20 386	24 603	3 005	15 175	9 861	11 435	7 205	13 725	18 659	12 718	15 217	25 425
Engineers	14 823	13 068	10 660	16 462	12 989	12 895	11 452	15 175	3 441	9 766	—	—	18 296	19 308	14 062	9 480
Civil engineers	14 831	13 068	10 660	16 462	12 989	12 895	11 452	15 175	3 441	9 766	—	—	18 296	19 308	14 062	9 480
Electrical and electronic engineers	13 181	12 623	10 336	16 165	2 722	6 565	1 105	—	3 894	9 441	—	—	11 870	11 870	18 605	—
Mechanical engineers	12 199	12 623	10 336	16 165	2 722	6 565	1 105	—	3 894	9 441	—	—	11 870	11 870	18 605	—
Industrial engineers	12 702	12 982	10 762	13 221	15 203	15 556	15 052	12 622	12 065	12 065	—	—	12 111	13 012	16 905	—
Mechanical engineers	15 487	15 437	13 137	17 933	12 307	12 904	11 728	19 005	8 920	9 099	—	—	21 688	22 664	16 005	9 480
Other engineers	15 487	15 437	13 137	17 933	12 307	12 904	11 728	19 005	8 920	9 099	—	—	21 688	22 664	16 005	9 480
Surveyors and mapping scientists	9 109	9 089	10 593	6 530	15 168	15 168	—	—	10 763	10 763	—	—	10 929	10 985	10 005	7 181
Computer systems analysts and scientists	13 816	14 043	11 914	7 865	15 232	15 425	13 097	14 880	9 296	11 849	5 420	—	13 015	13 120	12 110	1 053
Operations and systems researchers and analysts	13 109	13 795	10 618	7 403	13 880	14 845	11 157	11 255	13 256	12 493	24 005	—	10 954	12 074	7 508	6 479
Mathematical scientists	11 905	11 959	11 994	5 150	10 889	10 459	13 889	11 937	10 970	11 029	11 037	705	10 987	10 956	12 922	7 978
Natural scientists	12 688	12 360	12 369	13 187	14 637	14 076	13 231	14 489	13 395	13 144	12 611	20 234	10 612	10 624	11 653	9 495
Chemists, except biochemists	12 623	12 213	12 820	13 578	13 982	13 722	16 007	17 664	12 688	12 209	10 319	—	10 054	10 209	10 654	6 554
Other natural scientists	12 700	12 385	12 310	13 082	14 721	14 119	12 956	13 909	13 682	13 235	12 231	20 234	10 712	10 700	12 018	10 330
Health diagnosing occupations	24 233	22 707	20 929	27 546	22 933	21 588	19 203	25 492	25 956	24 008	23 554	30 627	19 896	19 890	13 859	10 385
Health assessment and treating occupations	11 316	11 138	11 928	11 560	11 889	11 705	12 320	12 143	9 299	9 203	10 117	9 804	11 288	11 258	11 709	9 877
Registered nurses	11 519	11 294	12 653	12 179	12 653	11 839	12 939	12 607	9 376	9 244	10 791	10 428	11 577	11 403	14 240	11 546
Other health assessment and treating occupations	10 212	10 264	9 340	9 254	10 634	10 690	9 641	10 003	8 928	8 997	8 280	7 917	10 973	11 096	9 754	8 569
Teachers, except postsecondary	10 581	10 477	11 425	9 238	11 840	11 884	11 147	9 295	7 010	6 731	8 280	6 700	11 799	11 753	12 195	10 214
Social scientists and urban planners	13 413	13 523	12 088	11 409	12 429	12 818	10 414	12 154	13 209	13 337	11 757	9 113	15 183	15 101	16 605	15 528
Social and recreation workers	10 201	10 188	10 453	9 141	13 073	13 059	13 314	11 959	8 661	8 535	10 027	8 815	11 524	11 844	11 049	8 499
Lawyers and judges	15 087	15 213	13 883	14 019	14 629	15 153	17 215	11 959	13 806	14 503	—	—	13 225	13 278	16 241	8 950
Writers, artists, entertainers, and athletes	6 997	6 949	8 370	7 721	11 103	11 282	10 228	7 019	8 770	9 101	6 580	9 080	8 003	9 793	9 160	6 556
Other professional specialty occupations	10 386	10 294	11 807	8 843	10 438	10 602	8 409	10 065	8 019	8 082	7 405	6 084	11 592	11 516	12 980	9 517
Technical, sales, and administrative support occupations	7 311	7 255	7 714	6 728	8 584	8 450	9 034	8 258	7 166	7 124	7 680	6 904	6 150	6 206	5 962	5 223
Technicians and related support occupations	8 921	8 763	9 492	8 823	9 369	9 174	9 826	9 252	8 256	8 199	8 401	8 466	7 243	7 221	7 641	6 416
Health technologists and technicians	9 031	8 852	9 568	9 012	9 360	9 158	9 844	9 255	8 251	8 199	8 421	8 511	7 843	8 959	8 716	6 584
Licensed practical nurses	8 125	7 811	9 394	8 222	8 491	8 163	9 693	8 354	7 236	7 033	8 316	7 956	7 712	7 712	8 756	7 144
Other health technologists and technicians	9 949	9 834	9 872	9 838	10 287	10 158	10 090	10 267	9 219	9 210	8 681	9 009	9 310	9 343	8 683	6 273
Engineering and science technicians	7 014	6 960	7 961	6 043	9 440	9 589	8 778	9 458	7 998	8 006	7 571	7 491	5 559	5 618	5 549	4 386
Electrical and electronic technicians	8 734	8 658	9 162	7 016	9 550	10 111	8 009	8 009	7 946	8 006	8 401	9 005	6 956	6 988	7 743	7 665
Industrial and mechanical engineering technicians	9 453	9 346	8 449	8 331	9 734	10 030	8 005	8 531	8 134	8 134	—	—	10 593	10 593	—	—
Drafting and surveying technicians	8 140	8 130	8 726	6 286	9 209	9 621	6 698	19 425	7 619	7 530	10 405	5 900	6 711	7 032	3 183	7 095
Other engineering and science technicians	6 330	6 240	7 581	5 463	9 419	9 439	9 148	6 650	8 027	8 057	7 087	8 045	5 418	5 501	5 194	4 186
Technicians, except health, engineering, and science	9 026	9 041	9 062	8 689	9 909	9 934	9 072	8 928	8 816	8 962	7 830	5 914	7 752	7 682	8 474	7 968
Airplane pilots and navigators	12 830	12 024	—	—	14 599	12 467	—	—	—	—	—	—	4 115	4 115	—	—
Air traffic controllers and broadcast equipment operators	6 141	6 065	6 909	6 918	7 764	7 676	8 204	—	13 082	13 082	9 131	—	13 082	13 082	—	—
Computer programmers	10 228	10 189	11 225	10 082	11 445	11 223	10 543	10 494	10 941	11 186	—	8 656	9 180	9 069	7 454	6 485
Other technicians, except health, engineering, and science	8 849	8 786	8 754	8 399	9 572	9 638	8 674	8 531	8 450	8 571	7 716	5 074	7 501	7 434	7 960	7 562

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Professional and related services, total				Hospitals				Health services, except hospitals				Educational services, government			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con.																
Sales occupations	5 316	5 281	5 543	4 888	7 033	7 033	7 139	6 915	8 428	8 599	7 192	5 526	3 652	3 596	4 263	3 058
Supervisors and proprietors, sales occupations	9 715	9 495	9 597	7 839	10 603	10 832	9 344	7 114	11 299	11 299	—	4 314	9 340	9 028	11 253	7 739
Salaries	10 032	9 810	9 597	8 329	10 603	10 832	9 344	7 114	11 812	11 812	—	4 314	9 340	9 028	11 253	7 739
Self-employed	5 209	5 301	—	—	8 535	—	—	—	13 181	12 952	—	—	5 714	4 928	12 692	3 090
Sales representatives, finance and business services	9 857	10 103	—	9 462	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	9 235	9 235	—	—	6 943	6 937	7 069	6 910	7 935	8 089	7 192	5 643	3 410	3 357	3 994	2 864
Sales workers, retail and personal services	4 970	4 917	5 358	4 687	7 024	7 023	7 110	6 724	7 350	7 353	8 037	5 932	3 300	3 250	3 860	2 723
Cashiers	4 602	4 500	5 139	4 672	6 468	6 477	6 702	6 541	8 471	8 748	6 570	4 283	4 363	4 304	5 040	4 528
Other sales occupations, retail and personal services	5 874	5 877	6 171	5 266	5 285	4 580	8 575	—	5 208	5 208	—	—	9 796	9 854	8 005	5 925
Sales related occupations	7 631	7 905	7 558	5 266	5 285	4 580	8 575	—	5 208	5 208	—	—	9 796	9 854	8 005	5 925
Administrative support occupations, including clerical	6 921	6 910	7 134	6 383	8 002	7 931	8 375	7 756	6 632	6 615	7 049	6 444	10 961	6 239	5 949	5 235
Supervisors, administrative support occupations	11 101	11 113	11 090	10 805	11 388	11 400	11 179	11 527	10 219	10 243	10 224	10 481	10 961	11 014	10 952	9 742
Computer equipment operators	7 970	7 908	8 601	7 583	8 401	8 345	8 681	8 598	7 615	7 633	8 785	8 467	7 508	7 568	7 508	5 537
Secretaries, stenographers, and typists	7 384	7 372	7 528	7 112	8 351	8 311	8 612	8 264	7 003	6 990	7 297	6 805	7 104	7 160	6 704	6 376
Secretaries	7 561	7 535	7 846	7 373	8 445	8 425	8 514	8 525	7 115	7 105	7 457	6 897	7 407	7 429	7 146	6 783
Stenographers and typists	6 150	6 090	6 564	6 065	7 933	7 762	8 906	7 527	5 988	5 830	6 848	6 226	5 474	5 507	5 515	5 245
Receptionists	5 783	5 758	6 204	5 723	6 934	6 814	7 724	7 014	5 709	5 709	6 104	5 698	4 132	4 221	3 599	4 443
Other information clerks	5 603	5 499	6 251	5 013	7 566	7 257	8 941	6 333	5 187	5 195	5 395	5 973	3 736	3 899	3 002	3 338
File clerks	4 298	4 164	4 790	4 306	5 542	5 542	6 212	5 395	3 431	3 361	3 844	3 632	2 910	2 965	2 856	3 258
Other records processing occupations, except financial	5 502	5 476	5 782	5 339	7 780	7 786	7 742	7 307	6 283	6 200	6 638	6 472	4 789	4 794	4 920	4 389
Bookkeepers, accounting, and auditing clerks	7 746	7 710	8 155	7 899	8 667	8 620	8 869	8 455	7 423	7 423	7 738	7 504	8 465	8 493	7 976	7 971
Payroll and timekeeping clerks	8 693	8 663	9 224	7 973	9 361	9 302	9 235	8 735	7 205	7 087	7 785	8 494	8 923	8 923	8 862	8 459
Other financial records processing occupations	8 074	7 962	9 054	7 746	8 402	8 306	9 312	7 392	6 741	6 593	8 146	7 736	9 211	9 211	8 677	8 459
Telephone operators	6 299	6 278	6 749	5 612	6 991	6 903	8 042	6 646	5 925	5 911	6 465	6 802	5 401	5 543	5 165	4 063
Mail and message distributing occupations	5 062	5 005	5 430	4 751	6 154	6 122	6 150	5 877	5 842	5 483	6 118	6 118	5 252	5 252	4 876	4 732
Production coordinators and expeditors	8 350	8 211	9 081	7 185	8 449	8 379	8 720	8 327	8 164	8 224	8 118	6 817	8 182	8 182	7 308	7 118
Traffic, shipping, and receiving clerks	6 643	6 610	6 225	5 992	7 293	7 293	7 446	6 813	6 299	6 437	7 234	4 552	6 708	6 919	5 004	6 655
Stock and inventory clerks	7 213	7 076	7 776	6 835	7 494	7 301	8 179	7 211	6 369	6 660	7 255	7 275	5 797	5 797	5 512	6 047
Other material recording, scheduling, and distributing clerks	5 909	5 608	7 512	5 859	6 851	6 523	8 347	6 499	5 121	5 251	4 597	6 267	4 393	4 393	4 451	5 059
Adusters and investigators	9 087	8 963	9 817	8 804	8 678	8 572	9 422	7 702	7 987	8 061	8 899	8 384	7 340	7 340	8 021	5 954
Data-entry keyers	7 950	7 752	8 716	8 274	8 140	7 940	8 622	7 825	8 368	8 148	7 329	13 236	7 118	7 118	8 066	8 255
Other administrative support occupations	5 705	5 577	6 452	5 147	7 569	7 370	8 248	7 454	6 134	6 027	7 329	5 478	4 836	4 728	5 441	4 448
Service occupations	5 190	4 917	6 068	5 032	6 825	6 529	7 432	6 482	5 213	5 147	5 509	5 206	4 049	3 829	4 874	3 852
Private household occupations	4 339	3 820	6 389	4 568	8 145	8 159	8 155	6 398	6 408	6 321	7 497	5 403	—	—	—	—
Protective service occupations	4 247	3 693	6 400	4 518	8 061	8 058	8 077	6 453	6 067	5 829	7 497	5 403	3 883	3 291	5 732	4 155
Guards	8 671	9 175	5 604	5 849	10 196	10 017	14 505	5 305	12 153	12 153	—	5 403	3 799	3 161	5 790	4 011
Other protective service occupations	5 196	4 925	6 066	5 034	6 822	6 525	7 430	5 482	5 213	5 147	5 508	5 206	8 802	10 648	2 597	16 005
Food preparation and service occupation	4 180	3 970	5 087	4 019	6 450	6 156	7 174	6 166	4 603	4 523	5 029	4 148	4 051	3 837	4 860	3 849
Health service occupations	6 078	5 829	6 834	5 989	6 944	6 622	7 614	6 620	5 354	5 284	5 667	5 411	3 626	3 512	4 203	3 316
Cleaning and building service occupations, except household	5 418	5 139	5 957	5 422	6 576	6 386	6 899	6 310	4 487	4 414	4 791	3 958	6 002	6 051	6 131	4 836
Personal service occupations	3 838	3 396	4 761	3 839	6 356	6 097	7 025	5 705	5 120	5 043	5 371	6 970	5 717	5 736	5 722	5 209
Farming, forestry, and fishing occupations	4 322	4 288	4 967	3 559	5 552	4 754	10 543	13 268	4 854	4 681	8 345	1 733	3 965	3 988	4 234	3 944
Precision production, craft, and repair occupations	7 373	7 265	7 963	6 624	9 331	9 481	8 925	7 713	7 756	7 707	7 925	6 987	6 295	6 109	7 469	5 501
Mechanics and repairers	7 011	6 829	7 538	6 909	8 451	8 477	8 101	9 037	8 020	8 100	6 416	7 575	6 292	6 062	7 237	5 377
Supervisors, mechanics and repairers	7 456	7 272	9 985	10 005	10 338	10 031	13 505	9 037	8 138	8 733	6 485	—	4 929	4 889	5 855	10 005
Automobile mechanics, including body	8 325	8 416	5 845	7 868	17 688	17 688	—	23 005	6 047	5 727	7 005	—	4 796	6 566	5 622	4 685
Industrial machinery repairers	6 788	7 143	2 833	9 282	8 477	8 887	6 005	—	3 257	2 473	—	4 695	6 301	5 636	—	10 530
Electronic repairers, communications and industrial equipment	5 893	5 633	7 039	5 694	4 121	3 400	5 524	2 834	10 281	11 428	8 005	—	5 796	5 653	6 902	5 193
Heating, air conditioning, and refrigeration mechanics	9 307	9 003	9 735	—	9 710	10 412	9 008	—	—	—	—	—	8 950	8 950	—	—
Other mechanics and repairers	7 322	7 131	8 069	6 235	8 503	8 449	8 404	9 387	7 549	7 205	2 205	8 655	6 842	6 663	8 595	4 007
Construction trades	5 668	5 483	6 404	6 643	8 634	8 343	8 905	9 327	5 944	6 104	4 923	8 085	5 790	5 919	5 618	6 533
Supervisors, construction occupations	8 725	8 428	10 019	7 934	9 880	10 535	9 371	7 085	5 525	5 453	7 205	7 005	8 769	8 729	6 292	13 423
Carpenters	4 841	5 022	4 475	5 763	9 519	9 506	9 554	5 245	7 188	7 336	6 005	13 603	5 879	6 313	4 272	8 999
Electricians	8 193	7 873	10 959	8 887	9 100	8 730	9 179	13 191	7 004	3 004	11 005	4 005	7 483	7 738	4 272	8 999
Painters, construction and maintenance	4 105	3 749	5 832	3 016	7 497	6 364	9 751	9 405	3 772	3 983	3 049	—	4 317	4 179	6 621	97
Plumbers, pipefitters, and steamfitters	9 348	7 997	12 082	19 205	7 765	9 765	7 655	9 405	—	—	—	—	8 443	7 930	4 005	19 205
Other construction trades	5 198	5 494	3 518	5 521	7 469	8 454	1 195	—	9 659	9 659	—	—	3 613	4 214	1 580	2 005

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Professional and related services, total				Hospitals				Health services, except hospitals				Educational services, government			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed females 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Extractive occupations	9 833	7 965	16 838	—	6 530	7 655	5 405	7 486	7 783	7 729	8 050	—	19 693	15 561	25 005	—
Precision production occupations	7 561	7 458	8 208	6 585	9 529	9 728	9 069	9 552	8 705	8 548	8 715	8 952	6 333	6 133	7 745	5 437
Supervisors, production occupations	9 644	9 667	9 693	8 270	11 153	11 450	10 408	9 552	8 705	8 548	8 715	8 952	10 612	10 939	9 892	4 750
Precision metalworking occupations	6 567	7 242	3 820	13 929	9 181	9 671	4 493	19 835	5 486	7 836	2 907	—	6 468	7 177	1 299	—
Tool and die makers	5 618	—	—	—	9 805	9 805	—	—	—	—	—	—	—	—	—	—
Machinists	7 786	7 813	2 222	—	7 878	7 716	2 228	—	6 055	9 544	2 845	—	6 430	7 507	1 299	—
Sheet metal workers	11 995	20 005	—	—	20 005	20 005	—	—	—	—	—	—	—	—	—	—
Other precision metal workers	6 027	6 191	5 777	13 929	10 302	12 156	7 212	19 835	4 768	6 050	3 005	—	6 536	6 556	—	—
Precision textile, apparel, and furnishings machine workers	5 082	4 941	6 234	3 788	6 684	6 523	7 964	3 946	5 763	5 935	2 230	—	4 209	4 200	3 977	3 857
Precision food production occupations	5 061	4 771	6 239	5 563	7 604	8 039	7 348	7 653	9 916	5 841	6 058	—	4 672	4 222	5 541	5 673
Precision inspectors, testers, and related workers	9 438	9 736	7 089	2 495	4 705	4 705	—	8 505	9 444	8 497	—	—	13 614	14 603	—	2 495
Plant and system operators	9 940	10 060	7 337	11 430	9 180	8 781	11 675	10 505	4 385	4 744	3 719	—	9 306	9 434	8 888	12 825
Other precision production occupations	7 692	7 603	8 361	6 884	9 787	9 788	9 775	10 923	7 732	7 695	8 196	6 822	8 144	6 835	14 736	4 507
Operators, fabricators, and laborers	4 993	4 805	5 942	5 323	7 002	6 767	7 667	6 435	4 907	4 799	5 373	5 269	4 780	4 715	5 311	4 595
Machine operators, assemblers, and inspectors	5 599	5 368	6 516	5 993	6 993	6 837	7 474	6 545	4 950	4 844	5 400	5 374	5 313	5 343	5 249	4 740
Machine operators and tenders, except precision	5 877	5 679	6 651	6 119	6 976	6 834	7 415	6 517	4 912	4 816	5 359	5 252	5 614	5 639	5 630	5 340
Metalworking and plastic working machine operators	5 707	6 281	4 375	3 620	8 005	8 005	—	5 225	6 942	8 940	5 003	1 052	4 435	6 487	2 382	—
Fabricating machine operators, n.e.c.	3 482	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Metal and plastic processing and woodworking machine operators	6 610	6 580	6 680	5 886	9 113	9 449	8 607	5 505	8 336	8 982	5 105	—	7 282	7 056	12 005	5 967
Printing machine operators	6 967	7 005	6 585	8 725	7 927	7 900	7 901	12 005	8 336	8 982	11 305	505	6 924	7 091	5 534	6 969
Textile machine operators	4 404	3 603	6 301	4 160	3 992	3 990	3 009	4 160	5 503	5 591	—	—	4 477	4 312	6 005	—
Textile sewing machine operators	6 429	6 320	6 900	5 551	7 433	7 265	8 133	6 328	6 428	6 435	4 789	—	4 524	5 436	3 165	773
Laundry and dry cleaning machine operators	5 720	5 490	6 544	5 021	6 800	6 666	7 237	6 475	4 758	4 667	5 295	5 149	5 814	5 604	7 335	5 355
Packaging and filling machine operators	3 447	3 259	5 151	6 295	6 389	6 589	—	6 823	5 268	4 999	6 422	2 365	2 018	1 685	9 805	—
Furnace, kiln, and oven operators, except food	8 498	8 140	11 012	6 143	12 597	13 315	9 532	6 705	2 173	2 173	—	—	9 276	8 866	11 720	—
Other specified machine operators	5 464	5 158	6 883	6 143	7 507	7 307	7 507	6 705	5 030	4 993	5 576	6 327	4 021	3 892	4 914	4 306
Miscellaneous and not specified machine operators	5 973	5 647	6 993	6 261	7 261	7 027	7 770	6 776	5 921	5 529	5 891	6 366	4 682	4 575	5 272	4 238
Fabricators, assemblers, and hand working occupations	3 364	2 948	5 108	5 413	7 282	6 601	8 816	7 328	4 896	4 543	5 096	6 450	3 204	3 098	3 231	470
Welders and cutters	2 907	3 337	9 683	4 501	8 186	8 186	—	—	5 824	4 543	5 72	7 878	2 368	2 717	707	—
Solders and brazers	4 664	5 414	6 301	5 177	8 186	7 185	8 574	—	6 471	6 171	5 415	6 416	3 405	3 325	245	—
Assemblers	3 364	2 867	2 807	5 177	7 437	6 659	9 321	7 328	4 833	4 373	5 181	—	3 417	3 134	3 699	605
Hand working occupations	3 288	3 362	2 819	4 400	4 599	4 599	4 838	6 246	4 028	5 282	265	—	3 403	3 577	4 325	—
Production inspectors, testers, samplers, and weighers	4 608	4 367	6 019	4 090	7 981	7 956	8 041	6 246	8 553	8 531	11 280	10 005	3 260	3 077	4 355	1 824
Graders and sorters, except agricultural	3 022	2 911	4 119	2 062	6 616	6 819	6 576	4 776	3 613	3 644	—	—	2 588	2 310	4 268	1 395
Other production inspectors, testers, samplers, and weighers	7 670	7 311	8 805	8 025	8 995	8 663	9 313	9 672	11 135	11 173	11 280	10 005	5 116	4 932	4 682	2 626
Transportation and material moving occupations	4 693	4 599	5 384	4 614	7 246	6 369	8 994	5 838	5 045	4 766	6 809	4 508	4 768	4 706	5 293	4 735
Transportation occupations	4 682	4 590	5 365	4 634	7 156	6 207	9 043	5 838	5 076	4 786	6 805	4 504	4 784	4 704	5 277	4 735
Motor vehicle operators	4 682	4 590	5 365	4 641	7 149	6 207	9 055	5 838	5 081	4 793	6 805	4 504	4 784	4 704	5 277	4 735
Truck drivers	8 843	4 498	5 454	5 273	5 819	5 806	6 370	4 734	4 818	4 793	6 335	4 901	4 764	4 432	5 180	5 499
Other sales workers	8 859	4 953	9 248	5 273	7 602	6 766	8 766	4 734	7 143	4 549	14 172	—	5 798	5 798	—	—
Rail and water vehicle operators	4 627	4 583	5 317	4 600	8 557	6 644	11 764	7 052	5 405	5 249	6 278	2 938	4 764	4 702	5 280	4 712
Material moving equipment operators	4 805	4 350	8 508	2 314	8 574	6 214	8 508	—	4 122	4 122	6 980	4 685	5 530	5 520	—	—
Supervisors, material moving equipment operators	6 406	6 369	7 056	2 314	8 362	8 123	8 248	—	4 811	4 293	—	—	6 524	6 020	8 135	—
Crane, hoist, and winch operators	12 391	13 336	8 612	—	11 499	15 590	8 612	—	8 805	5 605	—	—	17 403	17 403	—	—
Excavating, grading, and loader machine operators	14 177	14 177	—	—	—	—	—	—	12 530	12 530	—	—	—	—	—	—
Other material moving equipment operators	5 576	4 955	6 866	5 235	7 688	7 218	8 035	—	3 916	3 116	6 980	4 685	3 372	3 372	—	—
Handers, equipment cleaners, helpers, and laborers	4 136	3 712	5 593	3 952	6 954	6 251	8 232	5 692	4 308	4 382	3 989	4 930	3 796	3 369	5 636	3 312
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	8 686	8 828	8 072	11 005	9 725	10 264	9 186	8 242	8 242	8 213	8 698	8 698	10 118	11 251	7 642	11 005
Helpers, craft and production	5 440	4 775	8 079	6 716	8 061	6 716	10 877	6 816	6 576	6 576	6 424	3 840	2 947	2 787	4 270	3 456
Construction laborers	5 095	4 822	5 885	3 040	6 703	7 385	6 192	6 192	2 070	1 815	2 230	—	5 438	2 974	11 794	3 060
Freight, stock, and material handlers	4 235	4 267	3 958	2 533	6 478	6 519	6 135	3 175	3 316	6 123	—	—	3 297	3 311	3 627	3 093
Garage and service station occupations, and equipment cleaners	3 739	3 502	3 944	5 530	5 399	5 845	3 273	7 336	3 279	2 974	4 657	1 552	2 789	2 895	2 335	—
Hand packers and packagers	3 490	3 192	4 570	4 299	6 896	6 262	7 617	5 567	3 442	3 084	6 005	6 043	3 685	3 645	3 792	2 644
Laborers, except construction	3 853	3 369	5 377	3 334	6 610	5 767	7 952	4 114	3 754	3 933	3 308	4 962	4 076	3 394	6 492	3 029

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

United States

Employed males 16 years and over

	Educational services, private				Social services, religious and membership organizations				Other professional and related services				Public administration			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
12 835	13 308	9 258	9 254	9 723	12 252	12 691	9 622	9 723	26 689	27 321	15 007	18 088	17 716	18 405	13 516	14 521
16 413	16 672	13 544	12 515	12 140	14 270	14 545	12 197	12 140	30 099	30 536	19 835	22 585	21 617	22 066	17 687	18 131
19 680	20 070	16 969	13 867	15 977	20 173	20 704	16 436	15 977	27 140	27 447	17 468	22 585	21 617	22 066	17 687	18 131
15 266	15 266	15 266	12 005	15 757	15 266	15 757	14 005	15 757	21 712	21 712	17 468	22 585	21 617	22 066	17 687	18 131
22 140	22 749	14 282	13 367	19 283	21 935	22 238	14 399	19 283	31 426	31 796	27 714	25 356	26 776	27 214	20 756	22 559
22 307	22 479	18 662	17 598	20 337	22 438	22 438	22 347	20 337	30 370	30 549	24 678	27 058	23 180	23 463	17 910	17 520
20 879	21 141	18 662	16 296	11 165	15 640	16 363	12 601	11 165	27 857	28 381	17 165	3 280	25 838	23 088	13 746	13 546
18 009	18 059	17 993	15 508	17 655	17 655	18 308	14 419	17 655	25 821	26 652	14 648	19 097	25 838	23 088	13 746	13 546
18 449	19 026	14 195	12 191	16 521	20 702	21 186	17 130	16 521	34 256	34 697	19 818	19 097	25 838	23 088	13 746	13 546
18 441	19 005	14 331	11 944	16 538	20 785	21 280	17 141	16 538	33 578	33 988	20 474	27 302	22 711	23 300	20 569	20 448
18 633	19 503	11 458	15 600	15 646	14 663	14 655	15 839	15 646	41 359	41 994	8 803	31 553	22 711	23 300	17 957	19 853
15 519	15 876	14 239	10 477	18 283	18 283	18 878	14 811	18 283	25 082	25 276	16 490	19 747	19 084	19 433	16 121	16 469
15 154	15 485	14 342	12 254	16 432	16 432	17 042	13 174	16 432	25 255	25 540	16 070	19 484	19 084	19 433	16 121	16 469
15 567	15 485	14 342	12 254	16 432	16 432	17 042	13 174	16 432	25 255	25 540	16 070	19 484	19 084	19 433	16 121	16 469
14 466	15 313	8 524	7 906	13 767	17 069	17 904	13 665	13 767	25 428	26 441	19 246	20 192	18 405	19 014	15 353	15 925
12 627	13 181	9 086	7 087	12 034	14 854	14 115	20 211	12 034	16 104	16 104	17 075	14 126	18 356	18 563	15 864	16 784
17 145	17 805	12 211	9 403	17 185	22 030	22 335	16 977	17 185	25 788	26 106	18 490	22 963	22 543	22 938	18 953	18 543
15 636	15 873	12 417	12 184	12 294	12 294	12 502	10 690	12 294	31 785	31 785	20 746	22 932	22 543	22 938	18 953	18 543
19 709	20 444	14 619	19 944	22 404	22 404	22 524	13 005	22 404	25 831	26 081	19 869	21 858	24 720	25 079	19 880	21 330
15 569	15 789	12 687	29 005	22 087	22 087	22 219	12 005	22 087	26 612	26 612	20 612	21 254	21 708	21 962	16 594	17 368
20 044	20 938	14 823	19 081	23 047	23 047	23 984	13 947	23 047	26 729	27 039	20 779	23 569	25 142	25 489	20 540	21 814
17 789	20 012	6 873	9 983	21 879	22 212	22 212	21 879	21 879	26 309	26 516	21 948	24 547	23 536	23 852	18 938	20 892
19 323	19 649	15 509	9 983	22 007	22 007	22 007	22 007	22 007	26 069	26 375	22 335	23 986	23 536	23 852	18 938	20 892
17 823	18 777	14 838	16 056	22 044	22 255	22 255	24 555	22 044	24 141	24 328	16 332	17 190	22 964	23 242	18 327	20 420
19 150	22 285	16 627	16 056	21 567	21 567	21 567	21 567	21 567	25 174	25 494	16 409	21 192	22 964	23 242	18 327	20 420
21 193	22 285	16 627	30 245	25 197	24 710	22 039	22 039	25 197	27 590	27 979	20 742	23 549	25 986	26 467	20 690	19 929
13 512	13 512	13 512	15 844	15 844	15 844	15 844	15 844	15 844	16 706	16 882	8 641	13 043	14 815	15 539	4 937	13 044
16 417	16 703	21 345	20 817	19 261	19 261	19 190	23 313	19 261	23 378	23 620	17 705	19 598	24 991	25 130	24 072	21 929
24 313	24 172	28 505	12 181	18 380	18 380	19 321	11 365	18 380	24 232	24 635	15 700	20 785	25 499	25 327	21 048	24 134
16 726	16 744	29 505	17 237	19 184	20 267	20 267	15 684	19 184	32 355	33 185	18 052	57 304	23 451	23 678	21 882	19 710
13 454	13 931	11 310	12 550	16 987	17 328	17 328	15 684	16 987	24 045	24 430	17 298	15 622	20 420	20 906	18 098	17 550
16 744	17 002	12 570	17 792	20 402	21 470	22 036	15 029	20 402	21 661	22 128	15 154	21 692	22 712	22 880	21 380	18 622
43 677	44 852	34 151	38 721	49 567	50 117	50 117	36 118	49 567	24 555	24 896	17 919	13 769	20 415	20 622	17 164	17 399
15 099	15 340	12 922	6 672	13 316	13 316	13 316	10 013	13 316	39 156	38 632	47 581	35 352	32 963	32 967	26 825	31 916
17 156	17 688	15 268	4 705	15 830	15 951	15 951	17 971	15 830	28 363	28 363	9 512	13 005	16 444	17 285	13 344	15 283
14 612	14 811	12 141	7 163	12 785	12 785	13 217	8 829	12 785	20 877	22 554	9 512	13 005	16 444	17 285	12 167	10 389
12 735	12 866	11 121	10 641	8 575	9 178	9 178	6 371	8 575	13 430	13 817	10 264	8 373	16 613	17 419	12 635	10 449
18 433	18 461	23 458	14 049	19 373	19 373	19 752	15 521	19 373	25 974	25 917	24 732	18 310	22 406	22 751	18 942	17 660
11 179	11 867	9 512	8 101	13 043	13 043	13 538	11 792	13 043	23 438	25 877	10 059	14 845	15 196	15 664	13 455	13 239
32 857	33 024	30 480	—	19 355	19 355	19 707	14 932	11 094	39 170	39 517	25 375	30 780	28 225	28 457	26 117	22 728
10 958	11 180	9 257	10 539	12 204	12 599	12 599	6 887	8 877	16 162	16 341	12 877	13 186	18 663	19 196	15 315	15 210
17 959	18 306	13 171	13 335	11 536	11 536	11 666	10 265	9 374	22 985	23 489	14 046	15 671	16 972	17 689	13 848	14 585
7 558	7 710	6 247	6 589	11 414	12 013	12 013	8 624	8 842	14 562	14 878	10 851	11 579	16 768	17 547	12 757	13 288
9 562	9 640	8 595	8 706	13 738	14 292	14 292	9 203	12 825	14 462	14 582	12 573	12 610	18 865	19 196	16 066	15 977
12 308	12 947	8 855	10 580	12 610	13 060	13 060	9 587	14 608	16 818	18 089	8 005	22 093	16 756	17 335	13 289	12 756
9 234	9 234	8 855	10 580	7 789	7 789	7 789	12 105	15 005	17 989	20 686	6 005	28 005	13 057	16 101	6 303	8 150
12 330	12 980	8 855	10 580	12 972	13 578	13 578	9 479	14 531	16 705	17 851	9 197	18 353	17 951	18 353	14 226	13 334
7 233	7 270	7 280	5 799	13 741	14 360	14 360	7 430	12 861	14 316	14 408	12 647	12 585	17 603	17 923	15 467	14 751
10 654	10 744	9 035	7 837	16 075	15 991	15 991	8 481	20 352	17 954	18 203	16 703	15 836	20 888	21 069	18 528	18 655
5 727	5 727	5 727	—	16 075	16 075	16 075	—	—	15 610	15 498	8 747	10 414	19 716	20 860	12 468	16 818
10 704	10 798	8 919	14 165	13 433	13 433	13 433	9 967	11 615	13 757	13 792	12 750	12 401	14 772	14 899	14 111	12 379
6 199	6 232	6 232	4 629	15 104	16 020	16 020	5 824	13 353	16 330	16 755	11 290	13 375	16 603	17 045	13 449	13 922
10 476	10 561	9 604	10 362	14 002	14 498	14 498	10 244	12 335	15 010	15 221	12 427	12 160	19 771	20 117	16 716	16 658
15 470	15 470	—	7 505	22 684	22 684	22 684	—	—	27 703	28 621	15 327	—	23 535	23 658	17 883	17 148
4 963	5 221	2 226	1 661	9 988	10 269	10 269	640	11 530	14 903	15 346	15 700	15 902	20 966	21 100	17 691	17 518
9 473	9 599	7 358	11 307	15 513	15 895	15 895	10 162	15 700	16 243	16 300	11 804	15 902	18 350	18 785	16 970	17 676
10 984	11 095	10 963	10 442	13 269	13 840	13 840	10 677	10 427	14 548	14 775	11 804	11 427	18 350	18 785	16 970	17 676

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Educational services, private				Social services, religious and membership organizations				Other professional and related services				Public administration			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Technical, sales, and administrative support occupations—Con.																
Sales occupations	12 426	12 990	7 668	9 812	15 284	15 669	11 431	9 089	23 059	23 451	8 919	19 011	16 851	17 241	13 562	13 587
Supervisors and proprietors, sales occupations	16 282	16 768	13 620	14 120	21 288	22 183	13 063	13 998	23 034	23 325	11 155	15 578	19 279	19 830	16 480	23 209
Salaried	14 977	14 343	13 620	14 120	21 674	22 662	13 063	13 998	23 542	23 923	11 155	15 578	19 279	19 830	16 480	23 209
Self-employed	48 764	48 764	2 005	—	14 219	14 219	—	—	20 975	20 975	—	5 005	—	—	—	—
Sales representatives, finance and business services	12 331	14 019	—	—	16 749	16 749	—	—	24 886	25 291	10 416	20 044	19 138	19 228	17 322	15 437
Sales representatives, commodities, except retail	10 305	10 305	—	—	31 919	31 919	—	—	28 932	28 731	21 005	18 042	17 870	17 970	11 366	14 540
Sales workers, retail and personal services	11 972	12 313	7 287	9 345	14 861	15 226	11 197	9 109	12 945	12 945	6 220	18 338	13 346	14 029	10 696	11 054
Cashiers	4 781	5 072	2 694	4 897	15 181	15 706	6 859	2 943	5 444	5 551	8 822	13 005	11 094	11 177	11 013	11 305
Other sales occupations, retail and personal services	14 606	15 079	9 856	10 429	15 184	15 400	11 846	9 728	13 432	13 755	8 143	19 569	14 910	15 491	10 362	10 933
Sales related occupations	14 796	14 796	—	—	11 837	12 312	11 594	4 005	19 572	19 572	—	—	18 610	18 651	18 005	18 610
Administrative support occupations, including clerical	5 661	5 705	5 518	5 519	10 113	10 569	8 329	8 232	13 337	13 929	9 294	9 029	15 770	16 486	12 062	12 518
Supervisors, administrative support occupations	12 580	12 525	12 527	12 615	16 323	17 008	12 074	14 077	24 493	25 034	16 924	16 514	20 900	21 508	17 100	17 195
Computer equipment operators	7 373	7 073	6 379	6 074	12 548	12 625	12 625	12 625	12 625	12 625	12 625	12 625	12 625	12 625	12 625	12 625
Secretaries, stenographers, and typists	4 992	4 912	4 410	3 998	11 918	12 390	9 524	8 028	11 377	11 294	13 031	7 140	13 277	15 763	9 749	10 827
Secretaries	3 645	3 488	4 489	4 024	12 437	12 953	10 684	10 419	11 742	11 642	13 850	7 201	15 484	15 434	9 636	10 271
Stenographers and typists	3 670	3 488	4 489	4 024	12 437	12 953	10 684	10 419	11 742	11 642	13 850	7 201	15 484	15 434	9 636	10 271
Receptionists	3 025	3 190	2 864	3 704	7 296	6 888	7 026	5 428	9 991	9 991	12 555	6 842	15 474	18 070	8 970	9 950
Other information clerks	5 125	5 114	4 183	3 829	4 672	5 053	4 016	2 406	8 400	8 476	6 346	6 435	11 703	12 544	8 399	9 950
File clerks	2 957	3 089	2 724	4 003	7 470	7 828	6 553	5 408	9 776	10 418	5 427	3 510	7 748	8 173	5 253	6 778
Other records processing occupations, except financial	3 631	3 696	3 131	3 019	7 621	7 984	7 347	2 119	6 403	6 127	8 055	5 132	8 487	9 383	7 445	7 778
Bookkeepers, accounting, and auditing clerks	8 095	7 675	8 759	9 052	9 374	9 502	8 058	9 360	12 732	12 950	10 471	9 783	16 820	17 479	13 305	12 707
Payroll and timekeeping clerks	5 108	5 068	6 622	—	8 429	9 483	6 134	—	9 662	9 350	11 805	8 664	11 568	12 144	10 158	11 625
Other financial records processing occupations	10 441	10 448	12 467	11 278	11 985	12 274	6 043	8 849	14 843	15 047	13 916	14 227	17 889	18 295	15 138	16 435
Telephone operators	3 055	3 046	3 948	6 501	6 189	6 093	5 750	5 977	8 705	8 705	—	—	12 048	13 710	7 677	10 571
Mail and message distributing occupations	4 447	4 393	4 724	6 501	6 189	6 093	5 750	5 977	8 705	8 705	—	—	12 048	13 710	7 677	10 571
Production coordinators and expeditors	8 573	8 848	8 314	7 974	12 804	13 116	9 977	8 787	17 652	18 128	13 977	8 130	16 782	17 069	14 327	16 136
Traffic, shipping, and receiving clerks	7 854	7 931	7 571	5 906	7 590	7 922	7 036	8 708	9 857	10 823	9 864	7 129	16 782	17 069	14 327	16 136
Stock and inventory clerks	6 210	6 032	6 032	7 838	9 027	9 250	8 375	7 571	18 843	19 397	8 907	9 283	13 263	13 902	11 917	13 314
Other material recording, scheduling, and distributing clerks	6 450	6 557	8 865	5 505	9 442	9 395	9 492	15 172	18 623	18 623	13 005	17 874	13 263	13 902	11 917	13 314
Adjusters and investigators	13 617	13 768	13 529	14 325	12 345	12 806	11 234	15 172	18 623	18 623	13 005	17 874	13 263	13 902	11 917	13 314
Data-entry keyers	6 463	6 890	2 623	5 325	9 065	9 104	9 735	6 518	11 231	11 426	11 099	4 503	10 724	17 136	14 288	9 766
Other administrative support occupations	5 582	5 791	5 009	5 325	9 302	9 820	7 713	7 423	10 291	10 673	8 044	8 436	12 963	13 741	10 541	10 023
Service occupations	6 565	6 621	6 505	6 836	6 209	6 277	5 961	6 365	9 203	9 569	8 312	8 199	16 033	16 601	12 605	14 027
Private household occupations	6 622	6 355	8 093	6 794	6 958	6 772	7 990	6 863	11 196	11 560	10 317	9 619	17 104	17 374	14 880	16 197
Guards	6 349	6 078	7 782	6 537	6 407	6 340	7 839	6 825	10 648	10 910	10 185	9 298	11 560	11 999	10 384	11 013
Other protective service occupations	12 549	12 085	15 891	9 098	12 845	12 756	17 392	10 005	17 147	17 401	13 408	22 317	17 509	17 737	15 499	16 700
Service occupations, except protective and household	6 557	6 658	6 298	6 840	6 163	6 246	5 841	6 333	7 787	8 062	6 972	7 508	9 089	9 839	7 712	7 888
Food preparation and service occupations	3 939	3 785	4 631	4 927	5 952	5 832	6 392	6 357	8 171	8 320	6 995	6 777	9 143	10 824	8 042	8 400
Health service occupations	8 756	9 516	5 580	7 332	7 728	8 454	6 164	7 255	9 366	9 888	6 719	9 505	11 244	12 064	9 324	9 016
Cleaning and building service occupations, except household	7 504	7 705	6 882	7 458	5 990	6 070	5 644	6 405	7 539	7 757	7 108	7 371	8 894	9 553	7 611	7 866
Personal service occupations	4 289	4 305	4 220	3 897	6 816	7 151	6 066	5 837	8 708	9 042	5 153	8 689	9 343	10 388	7 553	7 237
Forming, forestry, and fishing occupations	7 134	7 301	6 869	7 543	6 193	6 185	7 003	5 522	9 363	9 621	7 996	8 614	9 503	10 077	7 350	8 503
Precision production, craft, and repair occupations	11 540	11 745	10 321	9 255	12 026	12 587	8 599	8 617	18 510	18 869	13 743	15 614	16 077	16 514	13 304	14 587
Mechanics and repairers	10 390	10 500	9 689	10 419	10 665	11 179	7 630	6 157	16 573	16 754	13 767	14 563	16 221	16 476	13 857	15 106
Supervisors, mechanics and repairers	9 254	11 168	8 005	12 691	9 566	20 721	9 734	—	22 627	23 326	11 055	18 252	21 270	21 431	9 105	19 141
Automobile mechanics, including body	9 758	9 678	10 477	9 769	9 028	9 028	6 322	3 890	13 742	13 776	8 177	10 124	13 976	14 176	12 550	12 707
Industrial machinery repairers	10 389	10 643	10 250	11 031	9 328	9 690	7 032	6 793	14 645	14 455	17 438	16 316	13 976	14 726	13 153	13 807
Electronic repairers, communications and industrial equipment	7 596	8 034	6 038	4 540	8 765	9 348	—	5 490	15 046	15 306	13 393	17 808	18 370	18 413	16 905	17 826
Heating, air conditioning, and refrigeration mechanics	13 055	13 000	12 109	13 547	10 980	10 980	—	9 753	17 847	17 847	16 115	17 005	16 829	16 818	16 251	17 424
Other mechanics and repairers	10 498	10 595	9 016	10 182	11 257	11 606	9 084	7 278	16 594	16 714	14 132	15 326	16 312	16 605	13 636	15 424
Construction trades	11 475	11 780	9 513	8 179	12 280	13 009	9 956	9 265	18 292	18 692	13 175	15 022	14 477	15 209	12 588	12 588
Supervisors, construction occupations	15 031	15 575	10 144	16 987	15 216	15 953	10 085	11 140	22 742	22 742	19 126	17 964	18 518	18 838	14 899	17 291
Carpenters	10 255	10 540	8 528	6 281	9 178	9 903	5 611	6 718	11 421	11 800	9 494	13 456	11 601	12 524	10 601	10 616
Electricians	12 650	12 857	11 661	8 481	17 706	18 111	14 315	16 261	18 582	18 783	14 856	13 458	16 640	17 019	14 817	14 630
Painters, construction and maintenance	9 802	10 060	7 321	9 009	7 197	7 337	7 154	6 967	11 019	11 019	9 101	14 906	11 971	12 402	10 585	11 898
Plumbers, pipefitters, and steamfitters	13 105	13 363	11 334	10 088	17 130	17 368	12 773	14 599	28 956	29 619	20 463	17 791	15 929	16 751	11 026	14 428
Other construction trades	10 340	10 745	9 151	6 689	11 839	12 791	6 556	9 276	11 282	11 567	9 571	16 268	12 531	13 126	10 484	11 447

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Educational services, private				Social services, religious and membership organizations				Other professional and related services				Public administration			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Employed males 16 years and over—Con.																
Extraction occupations.....	11 728	11 728	—	—	23 905	23 905	—	—	19 917	20 661	9 405	—	17 806	19 228	9 057	10 719
Precision production, craft, and repair occupations—Con.	13 618	13 781	13 030	9 681	12 550	12 709	11 029	9 428	12 840	13 090	14 255	17 085	18 013	18 406	15 614	16 020
Precision production occupations.....	12 699	12 745	13 185	7 021	13 156	13 252	12 771	10 223	12 840	13 090	14 255	16 992	18 013	18 406	15 614	16 020
Supervisors, production occupations.....	14 378	15 276	11 737	9 930	16 218	16 116	24 296	11 324	22 811	23 137	17 486	16 992	19 773	19 773	14 806	15 617
Precision metalworking occupations.....	26 372	27 980	—	—	6 454	7 958	—	—	17 782	17 538	—	—	19 773	20 045	12 648	20 985
Tool and die makers.....	15 233	15 233	—	2 405	14 325	12 478	38 978	15 480	15 480	15 607	10 772	17 818	16 986	17 274	13 733	16 243
Machinists.....	16 516	16 351	20 285	10 925	15 743	15 917	3 108	22 095	17 103	17 011	25 005	14 015	16 995	17 153	15 601	14 852
Sheet metal workers.....	12 477	12 479	12 743	10 815	15 743	15 917	3 108	22 095	17 103	17 011	25 005	14 015	16 995	17 153	15 601	14 852
Other precision metal workers.....	10 314	10 314	—	2 505	4 414	4 617	—	6 749	13 348	14 990	4 005	—	13 680	14 274	12 796	17 124
Precision textile, apparel, and furnishings machine workers.....	7 732	7 650	7 005	9 223	12 726	12 726	9 898	15 005	12 898	13 042	12 712	—	19 520	15 228	11 607	13 485
Precision food production occupations.....	5 571	9 285	—	—	12 459	12 890	20 785	15 005	14 908	14 866	—	8 461	19 520	19 397	18 914	19 071
Precision inspectors, testers, and related workers.....	15 467	15 820	14 037	13 028	15 372	15 566	3 625	10 316	21 321	22 075	13 115	19 882	18 049	18 330	16 709	17 176
Plant and system operators.....	11 800	12 209	5 396	6 646	4 988	4 990	3 355	5 604	14 689	14 781	24 005	16 110	15 009	16 181	12 457	9 984
Other precision production occupations.....	7 068	7 197	6 612	6 542	6 594	6 584	6 842	6 390	11 024	11 180	10 471	9 402	12 039	12 554	10 929	11 252
Operators, fabricators, and laborers.....	7 470	7 547	7 612	5 383	6 437	6 701	6 494	6 269	12 840	13 090	11 708	11 524	14 921	14 921	12 759	13 887
Machine operators, assemblers, and inspectors.....	7 788	7 768	8 428	6 041	7 653	7 745	7 505	7 895	12 260	12 490	11 679	11 264	14 200	14 576	13 058	13 536
Metalworking and plastics, except precision.....	5 544	5 414	7 001	9 005	7 758	8 092	3 520	3 005	17 465	19 215	12 678	7 792	14 967	15 361	11 685	15 023
Fabricating machine operators, except metal and plastic processing and woodworking machine operators.....	5 605	5 605	—	—	4 813	2 070	—	—	15 505	15 505	—	20 005	18 765	19 457	8 218	21 002
Metal and plastic processing and woodworking machine operators.....	5 417	5 393	10 005	3 877	4 107	3 882	7 717	2 988	15 136	16 120	10 199	13 730	15 002	15 066	14 405	16 328
Printing machine operators.....	8 120	9 958	9 748	6 506	9 878	9 944	9 392	10 546	15 931	16 008	11 279	11 104	15 058	15 155	15 712	10 844
Textile machine operators.....	9 928	9 928	—	3 005	10 854	14 366	—	—	15 263	16 005	14 045	6 005	9 297	20 107	4 461	16 845
Textile sewing machine operators.....	10 723	10 723	—	—	4 338	4 708	1 805	—	17 485	18 381	13 005	—	9 297	20 107	4 461	16 845
Laundry and dry cleaning machine operators.....	3 973	3 796	—	6 823	5 816	5 718	6 529	5 966	16 237	16 237	—	—	10 880	10 572	11 715	11 992
Packaging and filling machine operators.....	1 577	3 305	—	—	1 742	1 742	—	—	11 849	15 272	5 005	—	12 421	11 846	14 662	—
Furnace, kiln, and oven operators, except food.....	1 813	1 924	10 968	7 395	10 037	10 244	7 383	—	14 652	15 073	13 442	—	16 494	16 587	16 260	16 620
Other specified machine operators.....	5 051	4 752	6 644	5 131	6 698	6 750	8 009	8 855	10 677	11 071	9 148	10 777	13 149	13 185	13 462	13 601
Miscellaneous and not specified machine operators.....	7 588	7 781	7 305	5 973	7 377	7 557	7 045	8 373	11 811	11 709	12 735	11 771	13 101	13 672	11 260	11 993
Fabricators, assemblers, and hand working occupations.....	7 010	7 747	3 807	3 835	5 830	5 926	5 439	4 143	11 856	12 108	10 360	11 509	13 773	14 335	11 102	13 688
Welders and cutters.....	8 778	9 926	4 825	4 275	16 851	17 816	10 957	9 385	14 440	14 776	11 942	15 734	14 341	14 731	11 850	12 801
Solders and brazers.....	20 005	20 005	—	—	3 695	2 934	7 505	—	4 031	4 031	—	—	14 165	14 924	14 845	11 701
Assemblers.....	4 748	5 178	2 937	1 924	2 498	2 437	3 744	2 273	9 468	9 671	8 021	5 797	14 851	13 639	10 530	14 880
Hand working occupations.....	5 143	5 776	838	—	2 535	2 635	1 813	—	11 501	12 201	2 005	—	13 708	14 190	10 274	13 182
Production inspectors, testers, samplers, and weighers.....	4 096	4 133	6 234	2 048	5 024	5 058	4 361	4 200	16 592	16 662	14 530	14 749	16 964	17 116	14 972	16 637
Graders and sorters, except agricultural.....	2 633	2 525	—	2 422	2 141	2 008	2 387	4 205	2 879	2 879	—	—	12 684	12 846	9 784	14 773
Other production inspectors, testers, samplers, and weighers.....	8 999	9 438	—	475	10 403	11 134	7 523	4 194	16 886	16 993	14 530	14 749	17 568	17 705	15 774	16 874
Transportation and material moving occupations.....	7 771	7 925	6 965	8 327	7 821	8 039	7 441	6 884	12 643	13 242	11 084	10 938	12 487	12 803	11 787	11 628
Transportation occupations.....	7 613	7 722	6 986	8 463	7 247	7 407	7 060	6 519	11 026	11 221	11 115	10 117	11 987	12 189	11 660	11 024
Motor vehicle operators.....	7 562	7 661	7 562	8 463	7 193	7 353	7 009	6 519	10 477	10 366	10 899	10 117	11 987	12 030	11 660	11 024
Truck drivers.....	7 856	7 459	9 938	8 628	7 081	7 546	7 037	6 821	10 367	10 512	10 899	9 041	11 863	12 030	11 660	11 024
Other motor vehicle operators.....	7 106	7 133	6 966	2 005	6 709	6 300	6 005	3 305	7 413	7 432	7 005	13 653	11 840	12 073	12 337	10 078
Other material moving occupations.....	7 502	7 711	6 200	8 500	6 738	6 333	6 972	6 439	10 413	10 470	10 363	13 653	11 840	12 073	12 337	10 078
Rail and water transportation occupations.....	16 000	18 000	6 336	—	19 719	22 524	13 776	10 018	15 885	17 076	16 802	14 654	13 857	14 593	12 437	10 658
Material moving equipment operators.....	11 694	13 040	6 336	6 424	13 267	13 490	12 936	10 018	15 885	17 076	16 802	14 654	13 857	14 593	12 437	10 658
Supervisors, material moving equipment operators.....	12 449	12 245	—	—	19 719	22 524	13 776	10 018	15 885	17 076	16 802	14 654	13 857	14 593	12 437	10 658
Crane, hoist and winch operators.....	7 969	16 305	8 005	1 005	19 357	18 370	26 555	14 315	17 326	17 421	17 880	—	19 115	19 331	17 701	17 978
Excavating, grading, and dozer machine operators.....	7 499	7 745	8 005	1 005	18 375	18 375	26 555	14 315	17 326	17 421	17 880	—	19 115	19 331	17 701	17 978
Other material moving equipment operators.....	12 456	13 938	5 286	7 536	11 935	12 347	11 186	10 510	17 338	17 195	7 005	3 005	12 456	12 824	11 941	13 031
Handlers, equipment cleaners, helpers, and laborers.....	4 955	5 001	4 867	5 038	5 398	5 189	6 249	6 104	8 601	8 652	8 591	6 968	9 648	10 044	9 193	9 222
Supervisors, handlers, equipment cleaners, and laborers, except.....	22 228	23 443	19 105	—	9 495	10 220	8 561	5 542	17 700	17 823	16 172	23 527	20 229	20 344	20 255	—
Helpers, craft and production.....	5 450	5 214	3 886	3 151	3 977	5 743	3 828	5 542	7 251	7 187	8 038	6 288	8 340	8 778	7 704	7 818
Construction laborers.....	7 530	8 045	3 886	4 847	9 165	10 041	6 891	6 189	15 501	16 926	7 775	7 259	9 738	10 679	7 728	8 715
Freight, stock, and material handlers.....	3 948	4 035	3 830	4 064	8 581	8 293	10 123	10 152	9 481	9 309	12 419	5 064	9 580	10 175	8 689	10 524
Garage and service station attendants, and equipment cleaners.....	3 190	3 325	1 617	2 005	4 961	3 882	10 526	1 639	7 913	8 257	6 305	—	9 787	9 651	10 291	8 774
Hand packers and packagers.....	3 632	3 125	6 505	—	2 373	2 071	4 526	4 121	7 275	6 520	10 828	4 090	12 989	12 268	13 701	13 044
Laborers, except construction.....	4 844	4 959	4 404	6 251	4 512	4 394	4 842	5 660	8 708	8 948	7 985	7 508	9 330	9 736	8 912	8 811

¹Persons of Spanish origin may be of any race

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Educational services, private				Social services, religious and membership organizations				Other professional and related services				Public administration			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
United States																
Employed females 16 years and over	6 610	6 567	7 198	5 722	6 361	6 268	6 843	5 986	9 052	9 042	9 106	8 594	9 829	9 942	9 634	8 313
Managerial and professional specialty occupations	8 168	8 038	10 161	7 643	7 972	7 799	8 866	7 770	11 272	11 239	11 700	11 645	13 010	13 047	13 044	11 399
Executive, administrative, and managerial occupations	10 274	10 120	12 019	9 534	10 407	10 289	11 192	10 138	11 599	11 573	11 893	11 687	13 114	13 011	13 809	11 745
Officials and administrators, public administration	13 485	13 089	15 922	13 255	12 820	12 563	11 653	12 112	15 703	15 564	17 641	21 027	17 976	17 376	14 120	11 970
Financial managers	11 813	11 813	11 813	14 215	11 341	12 126	11 226	10 434	11 158	11 151	8 727	15 300	16 301	15 205	18 312	11 005
Managers, marketing, advertising, and public relations	11 064	10 816	13 912	9 911	8 294	8 010	9 852	7 109	9 301	9 301	—	—	16 308	12 890	34 964	11 405
Administrators, education and related fields	11 984	11 335	16 583	15 046	12 432	12 264	13 681	10 869	15 183	15 341	15 615	15 471	16 220	16 633	14 876	15 737
Managers, medicine and health	8 739	8 739	9 165	8 106	10 743	10 743	11 615	10 332	13 074	13 074	12 941	12 636	16 509	16 635	16 335	14 972
Other specified managers	8 800	8 779	9 206	9 372	10 899	10 806	11 656	10 464	13 416	13 434	13 050	13 243	13 644	13 713	13 667	11 383
Managers and administrators, n.e.c.	6 434	6 179	7 051	2 768	8 006	7 717	9 958	7 465	8 704	8 650	6 582	3 658	13 644	13 713	13 667	11 383
Self-employed	10 001	10 002	9 968	9 998	10 832	11 057	11 456	11 456	10 771	10 739	10 830	10 655	12 716	12 631	13 213	11 570
Management related occupations	9 006	9 873	9 899	10 741	10 837	10 741	11 084	9 384	10 986	10 959	10 961	10 798	12 125	12 808	12 136	10 436
Accountants and auditors	10 335	10 296	10 781	8 980	12 185	12 141	10 655	11 928	12 141	12 185	11 351	13 917	12 817	12 819	13 096	11 327
Personnel, training, and labor relations specialists	9 951	10 045	8 537	9 005	8 754	8 366	9 987	12 859	11 279	11 594	9 775	8 523	12 984	13 054	12 651	12 627
Buyers and purchasing agents	6 078	5 964	9 615	7 005	9 253	9 307	8 636	9 615	10 349	10 349	10 345	—	12 629	12 269	12 943	12 632
Inspectors and compliance officers	9 992	10 106	9 093	11 077	11 518	11 307	13 087	13 284	8 609	8 549	9 886	7 362	14 017	13 909	14 720	13 737
Other management related occupations	7 885	7 767	9 796	7 348	7 129	6 912	8 295	7 083	10 988	10 949	11 543	11 607	12 860	13 103	12 114	10 930
Professional specialty occupations	9 912	10 036	7 452	9 545	12 402	12 816	20 343	2 005	14 136	14 095	11 848	14 033	14 522	14 710	12 136	16 335
Engineers, architects, and surveyors	12 143	11 340	16 894	545	12 442	12 816	20 343	2 005	14 136	14 095	11 848	14 033	14 522	14 710	12 136	16 335
Architects	9 683	10 021	5 907	545	9 504	9 506	9 737	13 772	12 459	12 329	11 835	10 663	15 332	15 267	21 561	17 581
Engineers	9 216	11 081	6 653	—	16 012	18 104	—	10 085	15 290	15 329	9 193	17 683	14 571	14 842	11 622	15 936
Civil engineers	6 468	6 468	—	—	4 983	3 649	11 296	10 865	17 973	18 293	6 305	15 970	14 194	14 499	9 814	6 198
Electrical and electronic engineers	12 940	14 416	545	545	11 408	11 413	12 315	17 250	18 692	10 727	5 744	13 783	18 402	18 022	21 005	18 082
Industrial engineers	4 291	2 501	295	—	11 359	11 359	—	—	18 876	19 649	12 834	18 005	13 621	14 952	12 394	15 870
Mechanical engineers	10 522	10 541	8 895	—	9 737	10 130	—	—	16 705	16 816	15 905	18 651	14 147	12 479	16 314	7 545
Other engineers	6 888	6 888	—	—	14 285	14 285	—	—	8 147	8 055	11 005	5 706	14 564	10 327	19 298	—
Surveyors and mapping scientists	11 956	11 717	7 527	7 019	14 046	14 868	10 597	16 125	14 903	15 225	16 039	5 368	18 655	18 982	17 057	14 159
Computer systems analysts and scientists	9 531	10 533	7 527	10 533	12 705	11 932	15 425	8 998	17 293	17 485	16 205	10 005	18 662	18 849	18 608	15 090
Operations and systems researchers and analysts	8 401	8 153	7 303	2 005	9 038	8 386	16 718	3 407	15 953	16 367	10 037	13 725	16 174	16 132	16 336	14 353
Mathematical scientists	10 140	10 142	9 869	9 002	9 460	9 218	9 750	12 291	12 697	12 362	12 341	12 733	13 683	13 479	15 492	14 001
Natural scientists	9 171	8 349	16 655	8 392	11 261	8 721	—	11 005	14 668	14 046	10 477	15 928	16 121	16 045	17 478	12 561
Chemists, except biochemists	10 345	10 493	8 858	10 388	9 321	9 256	9 750	12 005	11 950	11 783	13 208	10 588	13 061	12 866	14 898	14 708
Other natural scientists	23 266	22 508	23 407	21 336	20 807	18 383	27 147	19 468	13 841	12 888	11 338	24 712	22 190	22 148	17 442	20 201
Health diagnosing occupations	9 559	9 467	10 987	9 586	10 108	10 020	10 836	8 359	10 998	10 936	11 521	8 807	12 855	12 903	12 536	12 050
Health assessment and treating occupations	9 793	9 639	12 375	10 753	10 793	10 628	12 297	9 792	11 794	11 549	13 884	19 660	13 562	13 446	13 964	15 649
Registered nurses	9 168	9 173	9 316	7 475	8 773	8 822	8 303	6 226	9 897	10 077	8 788	3 983	10 912	11 272	9 845	8 351
Other health assessment and treating occupations	7 405	7 287	9 539	6 893	4 447	4 183	5 866	4 956	5 386	5 415	4 266	5 310	7 708	7 354	9 389	7 473
Teachers, except postsecondary	12 170	12 300	12 003	7 900	12 308	11 871	15 134	12 287	13 188	13 352	9 313	9 947	15 078	15 394	13 481	11 908
Social scientists and urban planners	9 834	9 911	9 834	12 761	9 880	9 901	9 985	8 788	8 701	8 419	10 359	6 259	11 336	11 507	11 040	10 166
Social and recreation workers	15 377	15 240	20 168	11 661	11 209	11 738	8 997	12 912	15 264	15 359	14 225	14 288	12 796	16 579	16 964	13 008
Lawyers and judges	7 087	7 083	8 004	4 822	5 953	5 873	7 466	9 032	6 722	6 682	8 472	8 398	12 446	12 743	12 131	10 086
Writers, artists, entertainers, and athletes	9 078	9 004	10 350	8 252	6 292	6 206	7 265	6 195	10 221	10 201	10 708	8 693	12 576	13 009	11 330	10 364
Other professional specialty occupations	5 364	5 331	5 775	4 759	6 686	6 575	7 420	6 581	8 289	8 261	8 768	7 930	9 066	9 122	9 049	7 841
Technical, sales, and administrative support occupations	9 023	9 023	9 023	9 023	9 044	8 952	9 327	7 955	9 723	9 723	9 313	9 075	10 576	10 676	11 047	9 262
Technicians and related support occupations	9 259	9 131	9 838	8 982	8 627	8 347	9 713	6 172	9 807	9 854	9 576	10 188	10 653	10 398	11 208	9 286
Health technologists and technicians	7 398	7 183	8 088	15 247	7 150	6 717	9 053	5 178	9 366	9 366	9 366	10 005	10 632	8 492	10 628	8 556
Licensed practical nurses	9 714	9 579	9 397	8 220	10 502	10 239	11 156	8 706	9 894	9 841	10 471	10 305	11 544	11 490	11 978	10 923
Other health technologists and technicians	4 934	4 536	9 576	4 438	8 310	8 281	8 300	8 177	8 553	8 519	9 117	8 161	10 934	10 828	11 212	9 421
Engineering and science technicians	6 685	7 202	5 532	5 138	10 443	9 518	16 125	8 177	11 330	11 350	11 463	5 550	13 068	13 250	12 710	12 325
Electrical and electronic technicians	10 364	10 364	—	—	6 093	6 093	—	—	10 219	10 228	10 005	—	12 976	12 253	17 946	6 678
Industrial and mechanical engineering technicians	5 135	5 380	305	3 505	7 369	6 936	7 659	4 255	8 306	8 268	9 340	8 335	10 377	10 375	10 975	8 069
Drafting and surveying technicians	4 834	4 367	10 085	4 380	8 869	8 936	8 270	9 672	9 052	9 103	8 178	7 861	10 233	10 190	9 563	8 970
Other engineering and science technicians	7 433	7 382	8 469	7 001	9 827	9 951	8 951	10 364	10 376	10 385	10 299	10 087	10 721	10 664	11 356	9 249
Technicians, except health, engineering, and science	11 980	11 980	—	—	26 885	26 885	—	—	5 725	5 725	—	—	12 181	10 248	19 905	—
Airplane pilots and navigators	3 303	2 889	9 005	—	5 917	5 983	5 176	7 005	11 546	12 335	5 615	—	8 982	8 961	9 377	8 442
Air traffic controllers and broadcast equipment operators	8 860	8 739	11 967	8 867	10 736	11 432	6 867	19 621	11 911	11 928	13 302	9 265	13 922	14 068	13 813	13 901
Computer programmers	7 156	7 130	7 815	6 497	9 700	9 643	10 121	8 860	10 218	10 233	9 957	10 178	11 537	11 572	11 721	9 195
Other technicians, except health, engineering, and science	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:

1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Educational services, private				Social services, religious and membership organizations				Other professional and related services				Public administration			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Technical, sales, and administrative support occupations—Con.																
Sales occupations	4 426	4 411	4 428	4 165	5 979	5 981	5 303	5 034	6 927	7 040	6 049	4 685	8 092	8 164	7 712	6 123
Supervisors and proprietors, sales occupations	8 363	8 453	10 292	13 696	9 900	9 923	7 333	6 345	10 090	10 326	8 693	8 841	14 643	14 313	17 373	9 155
Salaried	8 547	8 573	10 292	13 696	10 593	10 616	7 333	6 345	12 866	13 324	8 693	12 643	14 643	14 313	17 373	9 155
Self-employed	8 795	8 795	—	—	7 116	7 116	—	—	12 886	12 886	—	—	—	—	—	—
Sales representatives, finance and business services	8 465	8 465	—	12 355	7 147	7 859	5 258	22 005	12 886	10 713	7 673	7 576	13 322	12 909	12 722	13 428
Sales representatives, commodities, except retail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services	4 174	4 150	4 404	3 766	5 717	5 759	5 154	4 831	12 534	12 534	5 322	3 064	12 103	11 716	7 516	5 639
Cashiers	3 390	3 384	3 957	3 697	5 114	5 191	4 517	3 071	9 943	9 932	3 932	3 064	7 229	7 286	7 056	5 822
Other sales occupations, retail and personal services	3 085	6 037	7 688	4 277	5 923	5 927	5 643	4 594	5 103	5 093	8 184	2 309	6 373	7 454	7 062	5 839
Sales related occupations	3 284	4 445	7 05	—	6 045	6 115	16 765	3 095	4 443	4 443	—	12 005	8 681	9 841	7 005	5 135
Administrative support occupations, including clerical	5 271	5 253	4 656	4 656	6 649	6 537	7 415	6 997	8 179	8 150	8 690	7 880	8 944	9 023	8 942	7 806
Supervisors, administrative support occupations	9 945	9 899	10 526	8 886	10 649	10 616	10 616	9 874	12 690	12 673	13 140	12 255	12 949	12 867	13 365	11 699
Computer equipment operators	5 894	5 700	8 132	4 581	8 790	8 643	9 191	8 723	8 621	8 469	10 446	8 491	9 833	9 702	10 480	7 775
Secretaries, stenographers, and typists	5 848	5 844	6 937	5 395	6 369	6 279	7 175	6 735	8 519	8 479	9 210	8 272	9 038	9 166	9 626	8 557
Secretaries	6 165	6 110	6 937	5 831	6 375	6 279	7 431	6 738	8 669	8 621	9 619	8 417	9 561	9 588	9 626	8 557
Stenographers and typists	3 810	3 772	3 941	3 656	6 329	6 275	6 523	6 333	8 669	8 621	9 619	8 417	9 561	9 588	9 626	8 557
Receptionists	3 400	3 372	3 698	3 324	5 062	5 068	5 444	4 201	5 832	5 860	6 755	5 307	6 431	6 308	7 516	7 028
Other information clerks	3 668	3 593	4 370	3 015	6 020	6 029	6 053	4 710	5 832	5 860	6 755	5 307	6 431	6 308	7 516	7 028
File clerks	2 772	2 817	2 747	2 207	5 021	4 959	5 255	4 998	4 793	5 114	5 007	5 297	4 441	4 212	5 716	5 758
Other records processing occupations, except financial	3 758	3 668	4 468	3 302	7 191	7 368	6 633	8 146	7 428	7 446	7 082	7 225	8 896	8 840	9 198	8 201
Bookkeepers, accounting, and auditing clerks	7 098	7 010	7 910	7 730	7 372	7 288	7 888	7 627	7 581	7 548	8 357	7 526	9 342	9 866	10 543	8 775
Payroll and timekeeping clerks	7 720	7 627	8 739	8 252	7 495	7 495	10 037	7 723	8 093	8 195	8 236	5 877	9 330	9 371	9 467	7 979
Other financial records processing occupations	7 138	7 065	7 175	6 330	7 968	8 067	6 277	6 778	7 790	7 703	7 105	10 175	9 729	9 611	10 140	10 213
Telephone operators	3 511	3 444	4 298	1 892	6 360	6 360	6 344	4 851	8 140	8 265	7 105	7 974	9 714	9 169	7 134	7 233
Mail and message distributing occupations	3 175	3 145	3 962	2 936	4 958	4 958	6 128	4 320	4 471	4 243	5 414	5 422	6 321	6 198	6 833	5 555
Production coordinators and expeditors	6 713	6 519	9 310	5 252	8 495	8 500	8 495	8 732	9 828	9 644	8 288	8 005	11 014	10 599	13 173	8 176
Traffic, shipping, and receiving clerks	4 795	4 884	4 884	6 784	7 110	7 110	5 435	2 921	8 206	8 399	4 589	8 005	9 808	9 808	9 950	8 572
Stock and inventory clerks	4 340	4 195	5 066	2 685	6 015	5 958	5 578	4 557	8 055	8 073	7 468	5 012	10 334	10 922	10 553	10 922
Other material recording, scheduling, and distributing clerks	4 651	4 272	8 064	4 581	5 499	5 359	5 574	4 743	6 223	6 370	7 971	5 012	8 048	9 997	8 986	9 112
Adjusters and investigators	7 421	7 310	7 189	13 149	10 215	10 134	10 580	10 210	11 444	8 123	9 971	6 385	12 175	12 061	12 677	11 828
Data-entry keyers	6 193	5 904	4 748	6 161	8 638	8 359	9 623	8 251	9 824	8 451	9 824	8 251	7 450	7 907	8 228	7 350
Other administrative support occupations	4 397	4 336	4 938	3 990	6 251	6 086	6 986	5 686	6 531	6 512	7 100	6 706	8 145	8 181	8 197	7 052
Service occupations	3 578	3 295	4 863	3 964	3 775	3 536	4 564	3 837	4 565	4 287	5 356	4 960	6 571	6 483	6 986	5 554
Protective service occupations	2 950	2 698	5 049	3 529	3 500	3 098	7 377	3 461	7 520	7 738	7 423	7 396	7 957	7 672	9 099	7 838
Guard	2 896	2 633	5 049	3 529	3 498	3 089	7 440	3 599	7 492	7 747	7 333	7 396	7 957	7 672	9 099	7 838
Other protective service occupations	10 531	10 531	—	—	3 600	3 563	4 005	2 838	7 886	7 654	12 005	4 425	11 402	11 316	11 863	2 904
Service occupations, except protective and household	3 595	3 312	4 860	3 971	3 778	3 541	4 555	3 838	4 270	3 950	5 173	4 734	5 363	5 047	5 984	4 519
Food preparation and service occupation	3 203	3 041	4 272	3 388	3 999	3 853	4 510	4 003	4 562	4 268	5 085	3 777	5 097	4 776	5 944	5 211
Health service occupations	5 591	5 310	6 267	6 587	5 050	4 921	5 374	4 632	6 269	6 576	5 560	6 512	6 242	6 221	6 494	4 419
Cleaning and building service occupations, except household	4 748	4 320	5 576	5 369	3 241	3 003	4 006	3 906	3 910	3 391	4 902	4 000	5 234	4 638	6 069	4 419
Personal service occupations	3 283	3 087	4 361	3 186	3 701	3 451	4 548	3 696	4 076	3 820	5 677	5 828	5 125	4 923	5 461	4 485
Farming, forestry, and fishing occupations	3 073	2 982	6 005	2 358	3 543	3 471	3 726	3 129	7 075	7 277	4 512	4 075	4 806	5 080	4 232	4 164
Precision production, craft, and repair occupations	5 685	5 491	7 057	5 469	5 700	5 670	6 126	4 724	8 942	8 708	11 567	9 017	10 434	10 806	10 337	9 543
Mechanics and repairers	5 956	5 617	7 167	8 453	4 863	5 454	2 918	2 586	10 274	11 197	13 042	10 318	12 159	12 577	11 872	11 005
Supervisors, mechanics and repairers	5 808	4 215	13 605	11 221	11 221	11 221	4 305	—	19 000	19 000	—	9 980	12 000	10 498	14 266	15 227
Automobile mechanics, including body	5 443	6 011	7 005	1 128	5 245	6 513	4 305	—	7 985	7 985	—	11 005	10 025	10 358	6 863	5 226
Industrial machinery repairers	4 693	4 693	—	—	519	705	484	—	12 176	12 399	—	—	11 149	10 668	11 993	—
Electronic repairers, communications and industrial equipment	5 714	5 205	7 492	24 005	5 429	5 429	—	—	10 779	10 486	18 005	5 505	13 641	14 429	14 945	14 945
Heating, air conditioning, and refrigeration mechanics	6 723	6 504	6 124	10 289	4 655	4 655	—	—	11 349	6 005	14 021	14 045	8 065	9 559	12 079	12 079
Other mechanics and repairers	—	—	—	—	4 609	4 634	6 505	2 586	10 726	10 493	11 157	14 045	12 300	12 192	12 735	10 884
Construction trades	4 875	4 508	6 756	664	3 562	3 448	3 707	3 878	6 141	5 417	11 767	11 023	7 364	7 299	8 344	6 482
Supervisors, construction occupations	7 100	6 143	10 928	10 912	7 875	7 875	10 104	9 304	11 814	11 814	12 546	11 023	10 261	10 068	8 061	6 454
Carpenters	3 240	3 225	3 071	1 205	3 071	3 323	2 738	1 314	4 609	4 114	6 005	9 885	5 567	6 108	5 217	6 454
Electricians	7 940	7 326	18 005	—	6 275	6 275	—	—	11 189	11 189	—	—	9 134	7 274	14 934	11 487
Painters, construction and maintenance	3 211	2 931	6 725	—	2 080	2 512	1 447	418	1 289	1 700	15 035	8 005	11 907	5 686	3 514	4 013
Plumbers, pipefitters, and steamfitters	7 208	7 208	—	—	13 023	4 549	19 005	—	3 105	3 105	—	—	11 907	12 497	10 938	—
Other construction trades	6 155	3 952	10 098	405	1 003	1 150	485	—	6 356	6 356	—	15 005	7 316	9 138	5 278	4 472

¹Persons of Spanish origin may be of any race.

Table 2. Mean Earnings (Dollars) in 1979 of Employed Persons With Earnings in 1979 by Occupation, Industry, Race, Spanish Origin, and Sex:
1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Educational services, private				Social services, religious and membership organizations				Other professional and related services				Public administration			
	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹	Race			Spanish origin ¹
	Total	White	Black		Total	White	Black		Total	White	Black		Total	White	Black	
Precision production, craft, and repair occupations—Con																
Extraction occupations	4 761	4 761	7 140	—	7 815	7 815	—	—	6 791	6 791	—	—	11 459	10 227	19 461	—
Precision production occupations	5 765	5 627	9 580	5 379	6 284	8 060	7 071	—	9 103	8 988	10 726	—	10 605	10 342	10 300	9 732
Supervisors, production occupations	7 369	7 028	9 580	7 907	8 136	8 060	9 167	7 876	10 966	10 922	12 450	8 771	12 861	13 102	12 486	9 840
Precision production occupations	3 858	6 219	505	—	3 105	5 076	1 085	—	6 776	6 280	15 005	6 335	12 207	11 914	13 242	14 234
Food and drink makers	—	—	—	—	—	—	—	—	—	—	—	—	18 214	18 214	—	—
Machinists	4 667	8 246	—	—	6 501	6 501	—	—	7 827	7 827	—	—	9 230	9 193	9 007	7 758
Sheet metal workers	3 985	—	—	—	—	—	—	—	—	—	—	—	14 605	13 929	17 353	16 393
Other precision metal workers	2 407	3 517	505	—	4 766	4 954	1 085	—	6 045	4 844	15 005	6 335	10 593	9 612	14 971	6 868
Precision textile, apparel, and furnishings machine workers	3 659	3 578	1 697	5 019	3 256	3 120	3 874	2 334	5 935	4 758	13 918	7 005	6 233	7 526	6 260	5 431
Precision food production occupations	4 898	4 811	5 606	4 194	2 693	2 165	3 649	1 822	1 852	1 852	—	—	7 180	7 100	7 494	9 985
Precision inspectors, testers, and related workers	11 200	13 395	9 005	—	6 625	7 869	655	—	6 768	5 833	19 735	—	10 331	11 157	9 445	6 805
Plant and system operators	9 911	8 827	18 005	—	11 400	11 434	11 110	—	11 836	12 115	1 105	—	10 582	10 400	6 765	8 229
Other precision production occupations	6 023	6 242	4 482	1 041	3 087	2 484	2 416	1 825	6 590	6 448	1 818	3 948	—	—	—	—
Operators, fabricators, and laborers	4 063	4 007	4 690	3 996	3 335	3 117	4 145	3 944	5 552	6 418	7 260	6 962	7 184	7 335	7 371	6 528
Machine operators, assemblers, and inspectors	4 021	3 981	4 857	4 450	3 257	3 048	4 294	4 393	7 038	8 828	8 250	7 924	8 204	8 349	8 985	7 500
Machine operators and tenders, except precision	4 369	4 371	4 962	4 835	4 080	3 859	5 074	4 964	7 516	7 166	8 963	8 885	8 429	8 610	9 364	7 608
Metalworking and plastic working machine operators	5 065	6 412	2 128	—	4 214	4 214	—	—	9 222	8 922	9 971	7 345	8 922	9 294	7 466	9 752
Fabricating machine operators, n.e.c.	3 005	3 005	—	—	965	965	—	—	6 005	6 005	—	—	5 879	6 768	325	—
Metal and plastic processing and woodworking machine operators	6 093	6 037	6 487	—	3 506	3 517	3 499	—	5 358	4 747	8 005	—	10 418	10 446	13 444	10 357
Printing machine operators	5 849	5 843	6 977	7 323	5 816	5 830	5 622	8 697	9 507	9 202	9 923	16 391	10 446	10 123	8 567	8 567
Textile machine operators	2 581	2 581	—	—	4 049	861	9 770	—	6 005	6 005	—	—	2 239	7 848	7 005	—
Textile sewing machine operators	3 645	3 619	5 005	—	4 305	4 235	4 899	4 231	8 763	8 177	9 297	—	8 071	7 941	8 072	13 329
Laundry and dry cleaning machine operators	4 120	3 834	5 538	6 762	4 191	3 875	5 207	4 280	8 906	7 913	11 428	—	8 325	7 666	9 101	3 621
Packaging and filling machine operators	2 424	2 542	1 520	4 086	1 500	1 500	—	—	3 943	3 943	—	—	3 727	3 382	5 654	5 167
Furnace, kiln, and oven operators, except food	962	962	—	—	5 205	5 205	—	—	6 341	6 293	—	—	9 488	9 004	18 005	—
Other specified machine operators	3 181	3 248	3 651	3 073	3 641	3 289	4 696	8 122	6 341	6 293	—	6 570	8 732	8 588	10 237	7 636
Miscellaneous and not specified machine operators	3 961	4 030	3 769	4 225	3 399	3 055	4 861	5 127	7 201	6 689	8 933	7 613	7 952	7 959	8 053	6 745
Fabricators, assemblers, and hand working occupations	2 692	2 416	4 438	3 200	1 730	1 677	2 188	3 307	5 669	5 479	7 316	6 370	6 653	6 786	6 953	8 104
Welders and cutters	4 370	5 028	3 383	—	71	—	—	—	3 396	3 396	—	—	8 611	10 141	5 756	10 385
Solders and brazers	6 005	—	—	—	3 309	4 747	2 505	—	5 199	5 941	—	—	9 159	10 170	10 490	155
Assemblers	2 610	2 331	4 583	4 193	1 711	1 615	2 615	3 710	5 763	5 502	7 438	6 370	6 284	7 321	7 333	11 612
Hand working occupations	2 217	2 217	—	—	2 024	2 404	49	—	5 456	5 553	4 005	—	6 284	7 321	2 079	4 750
Production inspectors, testers, samplers, and weighers	2 277	2 361	905	3 479	3 926	3 643	4 867	3 762	7 908	9 086	4 982	4 070	6 885	8 884	9 284	5 244
Graders and sorters, except agricultural	1 775	1 824	905	2 113	3 098	3 093	3 328	1 334	2 936	3 832	—	205	6 056	6 684	4 050	2 471
Other production inspectors, testers, samplers, and weighers	4 528	5 144	—	4 596	6 419	5 282	11 373	14 777	9 536	10 709	4 982	7 505	10 250	10 054	10 865	7 669
Transportation and material moving occupations	4 144	4 094	4 566	3 988	4 111	3 908	4 606	4 404	6 639	6 374	8 658	5 143	5 579	5 488	5 729	5 647
Transportation occupations	4 134	4 084	4 559	3 988	4 104	3 902	4 611	4 578	6 076	5 601	8 658	5 005	5 244	5 113	5 428	5 815
Motor vehicle operators	4 134	4 084	4 559	3 988	4 113	3 915	4 611	4 643	6 274	5 822	8 658	5 005	5 223	5 066	5 454	5 887
Truck drivers	5 594	5 071	6 797	12 929	4 051	3 998	4 176	4 391	6 868	6 158	12 215	—	5 446	5 314	5 778	4 795
Driver-sales workers	4 109	3 513	6 108	—	2 453	2 225	5 868	15	12 930	12 930	6 395	5 005	5 520	5 279	5 892	6 625
Other motor vehicle operators	4 093	4 061	4 422	3 708	4 156	3 916	4 778	4 970	5 347	5 040	6 395	5 005	5 097	4 929	5 256	6 625
Rail and water transportation occupations	5 205	5 205	—	—	841	841	—	—	1 978	1 978	—	—	9 594	9 378	2 201	2 415
Material moving equipment operators	7 601	7 786	6 125	—	4 472	4 164	4 423	245	9 217	9 217	—	5 235	9 142	9 872	8 721	4 626
Supervisors, material moving equipment operators	11 890	11 890	—	—	7 761	7 761	—	—	16 235	16 235	—	—	14 813	14 813	—	—
Crane, hoist and winch operators	7 905	7 905	—	—	505	505	—	—	7 808	7 808	—	—	6 103	7 213	9 024	4 626
Excavating, grading, and dozer machine operators	5 781	5 708	6 125	—	4 432	4 038	4 423	245	7 808	7 808	—	—	6 103	7 213	9 024	4 626
Other material moving equipment operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Handriers, equipment cleaners, helpers, and laborers	3 511	3 290	5 002	3 218	2 715	2 561	3 241	2 672	5 051	5 044	5 268	815	6 944	7 288	6 661	5 990
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	8 020	7 425	12 605	—	6 656	7 218	5 214	—	8 645	9 325	3 885	—	13 599	15 202	10 919	27 935
Helpers, craft and production	3 016	2 685	4 008	2 650	2 726	2 512	3 359	505	5 517	5 236	7 796	—	6 519	8 896	5 743	9 743
Construction laborers	2 271	2 166	5 072	—	8 341	9 803	6 996	805	3 088	5 246	65	1 005	6 606	6 705	5 983	8 503
Freight, stock, and material handlers	2 592	2 669	2 229	1 855	3 654	3 838	2 522	805	8 938	9 148	4 732	—	6 576	7 830	4 983	4 064
Garage and service station occupations, and equipment cleaners	2 518	1 689	6 350	555	1 831	1 358	4 052	—	9 712	9 899	8 855	—	5 704	5 788	4 622	6 586
Hand packers and packagers	4 170	4 453	3 230	3 854	2 451	2 451	1 422	2 086	2 970	2 737	—	155	9 078	8 955	9 193	9 388
Laborers, except construction	3 652	3 349	5 346	3 911	2 683	2 459	3 422	2 966	4 607	4 467	5 106	913	6 230	6 511	6 232	4 908

¹Persons of Spanish origin may be of any race.

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Total, all industries ¹		Agriculture, forestry, and fisheries		Mining		Total		Construction		Self-employed workers		Total		Manufacturing	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
	3 748 872	2 669 808	149 035	54 434	57 005	4 641	879 418	45 886	29 710	2 929	69 872	1 643	979 556	656 510	76 682	77 590
Experienced unemployed 16 years and over																
Managerial and professional specialty occupations	260 564	241 446	3 741	1 389	2 018	295	18 052	2 840	1 033	215	3 467	186	40 195	18 371	2 526	1 226
Executive, administrative, and managerial occupations	146 357	98 610	1 152	437	1 043	163	14 547	2 385	752	117	3 308	142	25 593	9 628	1 978	836
Officials and administrators, public administration	4 414	2 703	9	5	27	16	116	11	116	3	—	—	—	—	—	—
Financial managers	3 786	2 551	10	6	27	5	164	39	—	—	—	—	634	386	76	22
Managers, marketing, advertising, and public relations	10 321	4 190	28	6	23	5	229	33	—	—	7	—	3 321	781	204	45
Administrators, education and related fields	2 081	1 358	—	—	—	—	—	—	—	—	—	—	21	7	—	—
Managers, medicine and health	1 054	6 030	—	—	127	12	265	95	—	—	—	—	1 112	—	—	—
Other specified managers	7 286	6 034	73	12	127	12	265	95	—	—	36	6	1 112	—	61	43
Managers and administrators, n.e.c.	84 799	50 493	787	327	495	89	11 278	1 483	190	37	3 233	105	14 816	4 224	2 222	386
Salaries	75 427	47 499	684	298	444	89	8 001	1 334	190	37	—	—	13 883	4 020	1 144	373
Self-employed	9 372	2 994	103	29	51	—	3 277	1 49	—	—	3 233	105	933	204	78	13
Management related occupations	32 616	28 421	245	76	371	57	2 495	724	420	66	32	31	5 689	3 747	415	340
Accountants and auditors	9 603	9 927	34	21	111	31	411	379	11	20	6	23	2 374	1 671	155	152
Personnel, training, and labor relations specialists	5 843	6 610	138	10	40	15	292	66	23	19	18	—	930	613	90	69
Buyers and purchasing agents	5 778	4 155	38	15	96	11	280	11	8	5	—	—	1 811	866	144	54
Inspectors and compliance officers	5 008	1 852	29	94	22	94	1 363	145	362	22	6	8	1 227	170	10	53
Other management related occupations	6 384	5 877	6	8	30	—	149	16	16	—	2	—	447	227	16	12
Professional specialty occupations	114 207	142 836	2 589	952	975	132	3 505	455	281	98	159	44	14 602	8 743	548	390
Engineers, architects, and surveyors	21 165	2 218	1 264	511	511	32	2 903	112	239	46	72	—	7 597	942	198	60
Architects	2 281	333	1 080	97	446	30	1 196	6	—	—	22	—	42	—	—	—
Engineers	17 227	1 651	61	11	29	12	2 410	92	191	44	50	—	7 535	919	198	60
Civil engineers	3 356	2 008	29	6	12	2	1 730	69	158	33	33	—	1 511	22	40	—
Electrical and electronic engineers	2 897	2 223	2	—	12	2	160	7	11	—	6	—	1 431	96	2	5
Industrial engineers	2 734	636	11	—	2	—	178	—	3	—	5	—	1 970	468	50	48
Mechanical engineers	2 558	98	6	—	16	—	200	—	19	—	—	—	1 563	73	61	—
Other engineers	5 682	486	41	5	387	30	151	16	48	2	6	—	2 420	260	45	7
Surveyors and mapping scientists	1 657	234	63	45	65	2	288	—	14	—	—	—	20	6	—	—
Computer systems analysts and scientists	1 316	651	—	—	—	—	48	12	7	—	5	—	232	165	8	14
Operations and systems researchers and analysts	591	365	—	—	—	—	20	—	—	—	—	—	211	92	20	—
Mathematicians	465	564	—	—	—	—	—	—	—	—	—	—	75	71	—	—
Natural scientists	4 401	2 299	707	266	343	66	48	6	11	6	—	—	946	477	140	113
Chemists, except biochemists	1 186	595	37	17	37	17	11	—	—	—	—	—	717	319	78	71
Other natural scientists	3 415	1 704	707	266	306	49	37	6	11	6	—	—	229	158	62	42
Health diagnosing occupations	1 945	1 165	108	85	7	—	8	—	—	—	—	—	33	7	6	—
Health assessment and treating occupations	3 785	23 355	27	—	7	—	8	47	—	—	8	—	25	424	13	35
Registered nurses	822	17 676	18	—	7	—	8	37	—	10	8	—	25	415	13	33
Other health assessment and treating occupations	2 963	5 679	9	—	—	—	—	10	—	—	—	—	25	9	—	2
Teachers, except postsecondary	15 675	48 371	31	34	13	—	7	—	—	—	—	—	200	162	—	8
Social scientists and urban planners	2 683	2 678	8	28	12	13	19	10	11	5	—	—	383	290	51	26
Social and recreation workers	7 268	13 344	18	22	—	—	—	5	—	—	—	—	27	19	—	—
Lawyers and judges	3 148	1 725	—	—	20	2	439	—	13	19	68	39	68	5 988	112	108
Writers, artists, entertainers, and athletes	40 867	33 278	414	317	69	5	6	388	—	7	—	—	4 722	96	—	—
Other professional specialty occupations	10 698	12 823	12	15	—	7	—	230	—	—	6	—	83	—	—	—
Technical, sales, and administrative support occupations	379 688	910 384	2 172	4 792	1 825	2 492	9 639	21 526	631	912	291	272	70 640	96 311	4 176	8 790
Technicians and related support occupations	42 469	38 192	963	1 338	798	188	3 293	705	341	152	107	—	11 442	5 559	450	1 338
Health technologists and technicians	4 058	18 820	51	138	3	—	4	—	—	—	—	—	116	151	—	19
Licensed practical nurses	483	9 733	—	—	—	—	—	—	—	—	—	—	21	17	—	7
Other health technologists and technicians	3 575	9 087	51	138	3	—	4	—	—	—	—	—	95	104	—	12
Engineering and science technicians	25 303	10 458	675	336	673	146	3 057	652	330	146	107	—	9 485	4 555	421	1 262
Electrical and electronic technicians	4 309	916	—	—	11	—	136	19	13	—	2	—	2 486	458	40	—
Industrial and mechanical technicians	4 633	178	—	2	—	—	22	12	—	—	—	—	385	122	—	11
Drafting and surveying technicians	11 137	3 156	366	150	184	52	1 553	388	223	56	54	—	2 918	708	18	7
Other engineering and science technicians	9 224	6 208	309	184	468	94	1 346	233	94	80	51	—	3 696	3 167	360	1 244
Technicians, except health, engineering, and science	13 108	8 914	257	81	122	42	232	53	11	6	—	—	1 841	853	29	57
Airplane pilots and navigators	2 036	23	170	3	30	—	3	—	—	—	—	—	67	—	13	—
Air traffic controllers and broadcast equipment operators	2 016	1 800	17	20	—	—	16	4	—	—	—	—	28	—	10	—
Computer programmers	2 891	1 603	5	15	14	7	2	13	5	6	—	—	753	409	5	21
Other technicians, except health, engineering, and science	6 165	5 488	65	46	78	35	185	36	6	—	—	—	993	428	11	26

¹Includes experienced unemployed persons not classified by industry.

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

	Agriculture, forestry, and fisheries				Mining				Construction				Manufacturing			
	Total, oil industries¹		Total		Government workers		Self-employed workers		Total		Food and kindred products		Total		Food and kindred products	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.																
Sales occupations	173 310	323 842	407	776	107	24	2 167	1 198	19	29	101	14	16 410	8 916	1 117	1 017
Supervisors and proprietors, sales occupations	25 388	16 363	36	11	7	—	170	36	—	—	26	—	877	287	103	45
Self-employed	20 789	14 261	31	5	7	—	144	36	—	—	—	—	700	284	87	42
Sales representatives, finance and business services	4 599	2 102	5	6	—	—	26	—	—	—	26	—	100	3	16	—
Sales representatives, commodities, except retail	23 565	20 102	167	102	13	—	1 694	390	1	2	68	14	1 640	1 380	—	—
Sales workers, retail and personal services	23 675	9 357	155	382	76	—	49	—	—	—	68	—	8 021	3 616	934	573
Cashiers	100 332	276 431	40	281	11	24	247	772	18	27	7	—	5 823	3 486	80	344
Other sales occupations, retail and personal services	22 086	137 436	9	225	2	24	27	112	8	27	—	—	240	819	75	331
Sales related occupations	78 246	138 995	31	56	9	—	220	660	10	—	7	—	5 583	2 667	5	13
Administrative support occupations, including clerical	163 909	548 350	782	3 461	920	2 480	4 179	19 623	271	731	83	258	42 788	81 836	2 609	6 435
Supervisors, administrative support occupations	10 584	10 879	72	33	17	43	357	103	9	12	7	—	2 636	1 483	138	71
Computer equipment operators	4 209	7 897	7	43	44	—	42	103	19	—	—	—	1 046	1 855	43	151
Secretaries, stenographers, and typists	3 828	166 117	17	1 063	44	—	181	8 624	55	294	5	101	448	23 701	45	1 223
Secretaries	1 915	126 725	12	933	33	977	116	7 937	12	178	5	89	290	18 740	51	1 065
Stenographers and typists	1 913	39 392	5	130	11	66	65	687	43	116	—	12	158	4 961	6	158
Receptionists	1 172	30 490	1	390	—	82	21	878	—	13	—	—	50	2 832	—	—
Other information clerks	8 062	20 426	6	58	15	18	38	249	6	23	—	—	401	855	3	26
File clerks	4 137	19 553	—	28	37	38	85	224	—	22	—	—	1 351	3 274	168	475
Other records processing occupations, except financial	7 184	21 664	32	47	15	45	125	100	6	9	—	—	1 515	3 761	50	308
Bookkeepers, accounting, and auditing clerks	6 973	60 610	57	611	36	480	387	4 875	6	78	5	125	1 138	9 765	108	944
Payroll and timekeeping clerks	1 377	5 160	—	65	16	73	370	696	—	39	—	—	475	1 718	36	186
Other financial records processing occupations	1 472	9 702	5	15	11	12	86	140	—	—	—	—	250	1 689	24	161
Telephone operators	17 526	12 869	12	15	30	16	214	90	43	—	—	—	63	989	—	116
Mail and message distributing occupations	7 151	19 865	7	31	22	34	392	157	10	—	—	—	2 044	1 321	49	—
Production coordinators and expeditors	23 103	7 864	17	18	22	34	201	154	—	—	6	—	12 977	3 121	118	205
Traffic, shipping, and receiving clerks	23 983	13 535	137	36	48	32	619	130	56	—	—	7	7 710	3 952	730	244
Stock and inventory clerks	25 441	7 432	102	33	244	92	214	266	2	28	—	—	1 541	1 606	315	468
Other material recording, scheduling, and distributing clerks	976	10 478	101	241	162	232	119	28	—	—	37	—	1 591	1 606	319	726
Adapters and investigators	5 360	10 478	23	67	20	37	119	182	2	26	—	—	513	3 315	28	145
Data-entry keyers	1 356	15 365	8	67	18	293	665	2 472	38	187	23	21	3 932	12 494	195	951
Other administrative support occupations	25 795	110 256	133	625	143	293	—	—	—	—	—	—	—	—	—	—
Service occupations	407 800	568 849	3 563	1 468	1 305	221	4 482	1 384	704	190	85	34	31 111	9 406	5 546	2 196
Private household occupations	3 028	34 565	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	53 515	13 071	2 106	539	478	51	837	80	94	8	10	—	3 885	488	331	58
Guards	39 532	10 223	204	26	445	51	780	80	88	8	10	—	3 609	434	305	52
Other protective service occupations	13 983	2 848	1 902	513	33	—	57	—	6	—	—	—	276	54	26	6
Service occupations, except protective and household	351 257	521 213	1 457	929	827	170	3 645	1 304	610	182	75	34	27 226	8 918	5 215	2 138
Food preparation and service occupation	164 956	280 212	255	238	172	44	132	119	20	182	12	—	1 463	1 842	967	852
Health service occupations	11 784	89 625	22	99	18	—	7	28	—	5	—	—	45	205	2	47
Cleaning and building service occupations, except household	148 659	86 042	974	484	611	124	3 321	1 074	565	150	53	34	25 388	6 374	4 202	1 154
Personal service occupations	25 858	65 334	206	108	26	2	185	83	25	9	10	—	330	497	44	85
Farming, forestry, and fishing occupations	174 024	46 982	121 770	41 608	61	17	1 803	86	438	48	42	—	20 648	596	269	49
Precision production, craft, and repair occupations	882 341	78 011	2 952	409	25 507	628	501 018	9 588	9 107	570	62 013	1 087	158 766	44 950	12 892	6 739
Mechanics and repairers	175 360	8 557	1 041	26	3 192	50	17 145	362	766	8	579	2	41 215	4 319	2 570	163
Supervisors, mechanics, and repairers	3 356	161	36	13	34	—	314	16	—	—	9	—	295	13	21	6
Automobile mechanics, including body	69 057	1 294	153	9	266	5	1 307	8	160	371	27	—	6 263	371	214	—
Industrial machinery repairers	18 607	963	156	1	933	15	898	10	71	2	25	—	12 766	781	1 054	52
Electronic repairers, communications and industrial equipment	6 012	534	—	—	31	—	231	22	—	—	30	—	—	251	6	—
Heating, air conditioning, and refrigeration mechanics	7 928	141	6	—	8	—	3 364	48	32	6	222	—	723	29	29	—
Other mechanics and repairers	70 400	5 464	690	16	1 920	30	11 031	258	497	—	266	2	20 150	2 874	1 246	105
Construction trades	552 276	14 831	1 235	117	2 142	52	474 215	9 015	8 123	557	61 228	1 080	29 234	3 406	590	38
Supervisors, construction occupations	48 519	767	110	—	36	—	46 156	686	1 100	46	9 161	125	548	42	6	—
Carpenters	200 547	3 785	542	37	332	8	178 969	2 529	2 394	166	24 308	166	8 376	786	118	—
Electricians	35 449	1 293	57	—	569	—	23 637	463	20	63	1 211	652	6 015	652	263	—
Painters, construction and maintenance	55 510	3 978	91	23	78	2	44 106	2 198	992	168	11 160	435	3 336	777	65	13
Plumbers, pipefitters, and steamfitters	39 905	901	151	—	256	28	29 973	451	28	8	1 550	28	4 802	332	82	12
Other construction trades	172 346	4 107	284	57	871	14	151 374	2 688	3 008	163	13 838	306	6 157	817	56	13

¹Includes experienced unemployed persons not classified by industry.

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Total, all industries ¹		Agriculture, forestry, and fisheries		Mining		Construction		Manufacturing		
	Male	Female	Male	Female	Male	Female	Total		Total		
							Male	Female	Male	Female	
Experienced unemployed 16 years and over—Con.											
Precision production, craft, and repair occupations—Con.											
Extrusive occupations	20 330	562	89	18	18 923	475	749	19	20	285	9
Precision production occupations	134 375	54 061	587	248	1 250	51	8 909	5	186	88 032	9 723
Supervisors, production occupations	37 584	12 320	319	95	3 307	3	902	22	24	26 579	2 313
Precision metalworking occupations	46 248	6 526	73	25	3 307	7	6 632	73	106	34 368	5 603
Tool and die makers	6 133	207	7	—	—	—	50	—	—	5 876	200
Machinists	20 294	2 610	66	16	207	5	301	—	—	17 660	2 408
Sheet metal workers	9 279	538	—	—	11	—	4 223	31	—	4 229	486
Other precision metal workers	10 542	3 171	—	9	89	2	2 058	42	78	6 603	13
Precision textile, apparel, and furnishings machine workers	7 476	10 844	2	—	10	—	66	6	8	4 132	21
Precision food production occupations	17 814	8 821	112	95	3	—	72	11	6	7 220	54
Precision inspectors, testers, and related workers	2 961	2 411	15	—	17	—	97	12	—	1 750	28
Plant and system operators	6 035	411	64	—	546	28	789	25	17	1 836	54
Other precision production occupations	16 257	12 728	2	13	50	—	351	49	25	12 147	32
Operators, fabricators, and laborers	1 516 446	612 186	14 837	4 768	26 289	788	344 424	10 462	3 974	658 196	58 590
Machine operators, assemblers, and inspectors	540 804	455 777	2 788	1 452	3 169	141	23 657	798	451	453 989	18 542
Machine operators and tenders, except precision	309 385	274 155	2 288	904	3 107	71	8 304	333	214	262 346	35 082
Metalworking and plastic working machine operators	37 757	20 140	57	13	206	13	730	19	9	54 853	19 869
Fabricating machine operators, n.e.c.	1 955	1 457	23	8	—	—	70	4	—	1 750	122
Metal and plastic processing and woodworking machine operators	32 637	11 713	331	61	102	10	512	21	20	30 232	153
Printing machine operators	12 506	17 416	2	—	4	—	59	13	6	11 110	6 312
Textile machine operators	9 216	17 979	44	12	20	—	122	11	—	8 907	42
Textile sewing machine operators	5 252	80 140	—	16	2	—	—	—	—	4 782	54
Laundering and dry cleaning machine operators	2 157	18 682	—	8	—	—	2	—	—	180	41
Packaging and filling machine operators	8 405	13 138	54	79	9	—	55	16	—	5 833	15
Packaging and filling machine operators	6 405	13 138	54	79	9	—	55	16	—	5 833	15
Furnace, kiln, and oven operators, except food	8 942	762	73	7	121	—	167	5	—	7 323	4 257
Other specified machine operators	55 845	37 322	675	331	843	40	2 155	77	56	40 977	2 525
Miscellaneous and not specified machine operators	113 713	75 406	1 029	369	—	—	4 360	166	121	96 399	3 563
Fabricators, assemblers, and hand working occupations	202 584	130 089	344	222	1 578	40	15 020	407	237	167 472	2 182
Welders and cutters	71 228	7 201	238	—	1 478	15	13 257	185	199	43 333	382
Solders and brazers	7 844	2 572	—	—	11	—	—	—	—	2 473	24
Assemblers	124 943	115 429	66	132	73	25	1 499	164	34	117 630	1 146
Hand working occupations	5 549	4 887	40	90	16	—	215	45	—	3 828	2 849
Production inspectors, testers, samplers, and weighers	28 835	51 533	156	326	284	30	333	58	4	24 171	3 964
Graders and sorters, except agricultural	5 696	16 551	71	113	47	—	58	—	—	3 632	1 549
Other production inspectors, testers, samplers, and weighers	23 139	34 982	85	213	237	30	275	58	—	20 539	919
Transportation and material moving occupations	403 626	27 284	5 973	396	15 409	233	107 869	2 026	—	82 903	630
Transportation occupations	260 698	18 741	4 110	267	6 319	84	40 488	958	3 174	82 903	11 593
Motor vehicle operators	243 340	18 231	4 038	257	5 651	79	39 664	956	760	34 016	5 924
Truck drivers	213 739	9 030	3 844	251	5 590	77	39 214	58	758	31 011	5 863
Driver-sales workers	6 407	1 028	38	6	—	—	48	27	—	1 458	4 549
Other motor vehicle operators	23 194	8 203	156	10	61	2	402	929	2	1 547	133
Rail and water transportation occupations	17 358	510	72	129	668	15	824	22	—	1 547	136
Material moving equipment operators	142 928	8 543	1 863	129	9 090	139	67 381	1 068	2 414	763	3
Supervisors, material moving equipment operators	1 165	61	—	—	22	—	270	3	—	48 124	61
Crane, hoist and winch operators	13 579	409	59	—	944	31	4 491	16	46	6 317	5 669
Excavating, grading, and dozer machine operators	23 705	436	348	8	2 873	17	18 245	311	42	5 760	852
Other material moving equipment operators	104 479	7 637	1 456	121	4 251	91	44 375	734	1 030	9 193	14
Handlers, equipment cleaners, helpers, and laborers	572 016	129 125	6 076	2 920	7 711	414	212 898	7 638	349	121 304	21 138
Supervisors, handlers, equipment cleaners, and laborers	310	57	15	9	—	—	62	—	—	42	8
Helpers, craft and production	45 030	3 892	114	11	3 184	209	26 224	685	5	7 748	11
Construction laborers	192 545	7 267	431	81	5 619	10	184 494	826	342	1 970	720
Freight, stock, and material handlers	114 279	20 507	1 373	209	1 103	56	1 459	4	2	28 081	5 084
Garage and service station occupations, and equipment cleaners	53 360	6 185	121	32	69	21	575	13	—	3 385	896
Hand packers and packagers	24 201	55 328	765	1 707	27	—	84	42	—	15 909	37 670
Laborers, except construction	142 291	35 889	3 257	871	2 769	118	—	—	—	64 169	4 922
Experienced unemployed not classified by occupation	127 959	211 950	—	—	—	—	—	—	—	—	—

¹Includes experienced unemployed persons not classified by industry.

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing—Con																
Textile mill products		Apparel and other finished textile products		Paper and allied products		Printing, publishing, and allied industries		Chemicals and allied products		Rubber and miscellaneous plastics products		Other nondurable goods		Lumber and wood products, except furniture		
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
26 579	36 615	22 397	101 618	20 929	12 149	38 885	36 564	29 623	22 545	34 064	25 845	19 760	22 782	88 385	15 483	
1 031	611	1 638	1 434	653	283	5 210	5 142	2 318	1 027	1 194	364	794	339	1 379	311	
783	328	1 395	695	457	192	2 304	1 323	1 428	530	915	215	591	234	1 227	238	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
22	17	41	24	7	7	13	73	71	39	17	20	21	22	28	9	
61	—	148	32	65	10	706	319	7	53	103	12	53	93	93	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
13	14	100	30	6	—	28	20	74	18	42	15	50	—	55	12	
519	155	990	421	246	69	1 302	694	732	189	561	108	732	100	824	102	
519	155	904	372	240	49	1 156	640	708	183	555	103	345	100	536	93	
—	—	86	49	6	20	146	54	24	6	6	5	—	—	288	9	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
168	142	116	188	133	106	255	217	303	231	192	60	122	112	227	115	
73	64	63	109	49	71	126	96	164	85	101	42	79	79	42	42	
23	49	—	50	59	27	36	50	72	57	32	6	16	7	44	21	
39	12	50	16	25	8	41	30	27	42	46	12	21	26	136	31	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	13	
33	15	3	13	—	—	52	41	35	28	13	—	6	—	3	8	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
248	283	243	739	196	91	2 906	3 819	890	497	279	149	203	105	152	73	
101	19	74	29	106	21	92	20	302	100	194	20	119	21	78	15	
—	—	—	—	—	—	—	—	16	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
101	19	74	29	99	21	92	15	286	100	194	20	119	21	78	15	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																	
Textile mill products				Apparel and other finished textile products		Paper and allied products		Printing, publishing, and allied industries		Chemicals and allied products		Rubber and miscellaneous plastics products		Other nondurable goods		Lumber and wood products, except furniture	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Manufacturing—Con.																	
Experienced unemployed 16 years and over—Con.																	
Technical, sales, and administrative support occupations—Con.																	
Sales occupations—																	
Supervisors and proprietors, sales occupations																	
Salaried																	
Self-employed																	
Sales representatives, finance and business services																	
Sales representatives, commodities, except retail																	
Sales workers, retail and personal services																	
Cashiers																	
Other sales occupations, retail and personal services																	
Sales related occupations																	
Administrative support occupations, including clerical																	
Supervisors, administrative support occupations																	
Computer equipment operators																	
Secretaries, stenographers, and typists																	
Secretaries																	
Stenographers and typists																	
Receptionists																	
Other information clerks																	
File clerks																	
Other records processing occupations, except financial																	
Bookkeepers, accounting, and auditing clerks																	
Payroll and timekeeping clerks																	
Other financial records processing occupations																	
Telephone operators																	
Mail and message distributing occupations																	
Production coordinators and expeditors																	
Traffic, shipping, and receiving clerks																	
Stock and inventory clerks																	
Other material recording, scheduling, and distributing clerks																	
Adjusters and investigators																	
Data-entry keyers																	
Other administrative support occupations																	
Service occupations																	
Private household occupations																	
Protective service occupations																	
Guards																	
Other protective service occupations																	
Service occupations, except protective and household																	
Food preparation and service occupation																	
Health service occupations																	
Cleaning and building service occupations, except household																	
Personal service occupations																	
Farming, forestry, and fishing occupations																	
Precision production, craft, and repair occupations																	
Mechanics and repairers																	
Supervisors, mechanics and repairers																	
Automobile mechanics, including body																	
Industrial machinery repairers																	
Electronic repairers, communications and industrial equipment																	
Heating, air conditioning, and refrigeration mechanics																	
Other mechanics and repairers																	
Construction trades																	
Supervisors, construction occupations																	
Carpenters																	
Electricians																	
Painters, construction and maintenance																	
Plumbers, pipefitters, and steamfitters																	
Other construction trades																	

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States															
Experienced unemployed 16 years and over—Con.															
Manufacturing—Con.															
Textile mill products		Apparel and other finished textile products		Paper and allied products		Printing, publishing, and allied industries		Chemicals and allied products		Rubber and miscellaneous plastics products		Other nondurable goods		Lumber and wood products, except furniture	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
18	—	8	7	6	8	—	—	30	5	9	—	22	2	22	—
1 536	850	3 370	4 918	1 063	1 855	1 910	2 304	1 850	441	2 304	739	2 141	1 121	3 580	604
1 092	506	1 027	2 185	558	92	886	416	1 216	247	1 335	267	732	292	26 818	7 671
249	123	180	219	376	83	219	98	389	80	738	257	438	30	20 175	4 608
19	—	27	—	47	8	13	7	23	7	137	8	6	5	18	—
182	65	90	75	288	75	75	—	300	72	491	216	248	23	244	55
22	—	—	19	—	—	—	—	29	—	14	5	19	—	114	5
26	58	63	144	22	—	131	91	37	1	96	33	165	2	280	9
153	204	2 061	2 410	13	9	13	15	55	34	63	108	515	71	20	31
6	—	7	—	2	—	17	2	14	7	21	8	7	—	37	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
33	3	6	—	31	—	14	—	1	—	40	24	10	40	16	—
—	—	—	—	—	—	—	—	205	39	23	73	25	32	55	—
3	8	89	92	12	—	733	1 773	20	30	51	73	32	—	1 382	373
18 316	31 181	12 515	87 975	15 685	9 228	18 623	13 154	18 158	15 151	25 385	21 863	12 577	18 138	54 206	10 978
12 560	28 536	8 374	82 386	9 293	6 153	13 272	10 742	10 753	10 656	19 317	18 640	7 805	15 117	26 818	7 671
25 484	25 484	7 342	75 356	7 974	4 212	12 481	8 500	8 876	6 591	15 483	13 302	6 265	12 020	20 175	4 608
92	205	60	119	182	63	56	61	360	198	652	607	156	130	865	544
10	19	4	19	20	3	11	20	7	14	22	18	8	33	13	4
172	202	165	438	447	147	141	79	500	948	2 574	3 184	256	185	11 891	1 617
110	65	244	559	78	323	5 155	17	51	51	80	71	11	16	61	30
15 445	474	3 270	63 690	33	122	26	142	21	86	101	635	157	20	54	93
462	5	—	—	—	—	—	—	8	19	—	—	19	6	8	—
40	32	47	126	—	—	—	—	—	—	—	—	—	—	—	—
61	157	18	201	91	199	131	106	415	549	106	198	66	150	54	38
34	—	14	—	110	7	7	—	256	23	83	19	88	62	416	64
989	989	2 048	5 504	1 873	749	1 078	905	3 011	717	2 224	1 686	2 938	6 791	1 538	426
1 656	2 694	1 177	4 016	4 570	2 785	1 675	2 019	4 244	3 893	9 466	6 805	2 320	2 366	5 201	1 738
679	434	636	2 181	1 036	1 208	629	1 290	1 565	3 286	2 678	3 436	1 154	1 934	4 813	2 100
20	77	110	24	18	122	6	—	363	48	243	60	256	7	616	89
8	—	—	—	—	—	—	—	9	—	—	10	6	6	27	12
323	554	433	1 774	853	1 106	428	1 160	1 133	3 183	2 380	3 258	799	1 722	3 925	1 902
34	97	93	383	61	82	120	102	60	49	55	108	93	199	245	97
2 373	611	396	4 849	611	733	162	952	312	779	1 156	1 902	386	1 163	1 830	963
86	142	69	294	105	128	41	163	49	21	153	101	126	304	1 567	659
525	2 231	327	4 555	178	605	121	789	263	758	1 003	1 801	260	859	263	304
1 571	363	1 045	947	2 508	264	2 378	418	2 717	322	2 324	422	1 622	251	14 259	377
418	22	474	36	759	7	1 620	285	1 068	62	637	33	924	27	6 086	120
396	22	474	36	756	7	1 620	285	1 068	60	634	33	905	27	6 046	120
374	22	422	36	713	7	1 392	161	1 007	57	595	31	880	27	5 972	111
9	—	—	—	19	—	109	59	24	3	—	—	10	—	—	—
—	—	52	—	24	—	119	65	15	2	39	2	15	—	74	9
—	—	—	—	3	—	—	—	22	—	—	—	19	—	40	—
—	—	—	—	—	—	758	133	1 649	260	1 687	389	698	224	8 173	257
1 153	341	571	911	1 749	257	—	—	12	—	42	7	29	8	699	9
—	—	8	—	6	—	8	—	25	—	4	4	5	—	468	—
2	—	3	—	16	—	6	—	84	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1 151	341	560	911	1 668	257	744	133	1 528	260	1 641	378	664	216	6 999	248
4 185	2 282	3 096	4 642	3 884	2 811	2 973	1 994	4 688	4 173	3 744	2 801	3 150	2 770	13 129	2 930
—	—	—	—	—	—	—	—	—	—	—	—	8	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
121	50	77	99	317	75	405	172	264	32	221	83	151	56	336	135
34	3	8	—	55	—	37	2	114	6	42	—	93	15	291	45
2 047	505	659	639	796	321	787	227	829	271	912	227	535	251	6 141	1 167
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
252	116	90	204	22	1 812	75	5	123	42	217	51	80	33	121	28
536	866	1 052	2 284	2 128	601	581	1 087	788	2 965	420	1 733	385	1 031	545	437
1 195	742	1 210	1 416	2 128	601	1 088	501	2 570	857	1 932	707	1 898	1 384	5 695	1 118
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Experienced unemployed not classified by occupation															

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Manufacturing—Con.																
United States	Furniture and fixtures		Stone, clay, glass, and concrete products		Primary iron and steel industries		Primary nonferrous industries		Fabricated metal industries		Machinery, except electrical		Electrical machinery, equipment, and supplies		Motor vehicles and motor vehicle equipment	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Experienced unemployed 16 years and over	26 169	15 428	39 703	13 989	60 215	8 561	19 489	7 261	77 254	30 846	92 601	34 787	51 007	65 900	166 752	56 987
Managerial and professional specialty occupations	782	280	1 277	431	995	169	576	174	2 421	663	4 413	1 222	4 317	1 578	2 606	832
Executive, administrative, and managerial occupations	686	217	912	200	598	121	377	101	1 863	568	2 871	843	2 221	1 012	1 608	498
Officials and administrators, public administration	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Financial managers	8	23	14	7	19	5	15	13	49	30	58	59	64	8	14	20
Managers, marketing, advertising, and public relations	95	13	97	8	36	—	36	2	187	30	399	33	317	39	160	8
Administrators, education and related fields	—	—	—	—	—	—	—	—	—	—	8	—	—	7	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	28	14	17	25	46	10	19	11	86	22	163	62	103	66	84	26
Managers and administrators, n.e.c.	421	107	637	60	421	45	178	20	1 108	221	1 476	291	1 171	420	739	179
Salaried	373	105	616	60	298	45	178	20	1 081	221	1 413	284	1 155	412	729	179
Self-employed	48	2	21	—	4	—	—	—	27	—	63	7	16	8	10	—
Management related occupations	134	60	147	100	195	61	129	55	433	258	767	398	566	472	611	265
Accountants and auditors	45	19	80	58	79	29	42	27	188	112	357	170	217	137	250	144
Personnel, training, and labor relations specialists	19	6	12	6	80	10	54	26	74	38	84	142	63	145	167	52
Buyers and purchasing agents	46	33	42	31	23	7	27	2	168	99	279	143	246	142	120	37
Inspectors and compliance officers	—	—	5	5	5	—	—	—	—	2	2	17	5	27	15	—
Other management related occupations	24	2	8	—	8	9	6	—	29	7	30	11	35	21	59	32
Professional specialty occupations	96	63	365	231	397	48	199	73	558	95	1 542	379	2 096	566	998	334
Engineers, architects, and surveyors	29	18	154	6	321	16	110	15	398	42	1 158	115	1 572	192	751	136
Architects	—	—	—	—	—	—	—	—	—	6	4	—	—	—	—	—
Engineers	29	12	154	6	321	16	110	15	398	30	1 154	115	1 572	192	738	136
Civil engineers	—	—	20	—	7	—	—	—	—	2	5	5	2	—	24	9
Electrical and electronic engineers	—	—	—	—	—	—	11	—	3	—	164	19	927	65	32	—
Industrial engineers	29	5	43	6	89	6	42	6	183	12	259	46	356	102	226	92
Mechanical engineers	—	—	33	6	48	—	21	—	138	5	524	12	94	—	361	32
Other engineers	—	7	58	—	170	10	36	9	74	11	202	33	193	25	95	3
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	6	—	—	—	—	13	—
Computer systems analysts and scientists	2	—	—	2	5	—	8	7	7	4	106	37	22	19	6	—
Operations and systems researchers and analysts	—	—	—	—	6	—	—	8	14	11	19	6	25	14	54	14
Mathematical scientists	—	—	—	—	11	—	—	5	10	—	12	—	6	6	14	—
Natural scientists	—	—	43	35	33	—	33	25	44	—	33	—	25	23	22	—
Chemists, except biochemists	—	—	43	35	33	—	33	25	20	—	25	—	12	17	18	—
Other natural scientists	—	—	—	—	—	—	—	—	24	—	8	—	13	6	4	—
Health diagnosing occupations	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—
Health assessment and treating occupations	—	3	—	6	6	23	—	9	—	36	—	29	—	52	—	99
Registered nurses	—	3	—	6	6	23	—	9	—	36	—	29	—	49	—	99
Other health assessment and treating occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, except postsecondary	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Social scientists and urban planners	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Social and recreation workers	5	4	7	—	8	9	20	4	18	—	20	33	56	24	20	13
Lawyers and judges	2	—	—	—	—	—	—	—	—	—	7	—	74	24	19	22
Lawyers, artists, entertainers, and athletes	—	—	—	—	—	—	—	—	24	—	11	—	—	—	—	—
Other professional specialty occupations	58	36	150	182	6	—	23	—	43	2	170	159	298	199	132	42
Technical, sales, and administrative support occupations	—	2	11	—	—	—	5	—	—	—	6	—	18	13	—	6
Technicians and related support occupations	1 487	1 796	1 522	2 630	2 657	2 150	1 215	1 183	4 210	5 541	7 566	9 094	6 588	8 437	5 769	4 197
Health technologists and technicians	81	—	296	139	616	62	203	29	705	272	1 769	481	2 218	828	644	94
Licensed practical nurses	—	—	7	7	12	—	16	16	19	8	—	10	—	19	2	—
Other health technologists and technicians	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Engineering and science technicians	—	—	6	7	—	—	—	—	7	—	—	—	—	18	—	—
Electrical and electronic technicians	56	—	244	125	575	62	192	13	591	215	1 435	317	1 943	639	569	72
Industrial and mechanical engineering technicians	—	—	13	9	22	—	21	2	5	6	456	61	1 367	347	54	15
Drafting and surveying technicians	—	—	—	—	—	—	—	—	32	2	53	2	53	9	107	6
Other engineering and science technicians	55	—	64	6	128	17	60	2	355	77	699	148	394	110	221	25
Technicians, except health, engineering, and science	1	—	167	101	413	45	111	9	199	108	227	106	129	173	187	26
Airplane pilots and navigators	25	—	45	7	29	—	11	—	107	49	334	154	275	170	73	22
Air traffic controllers and broadcast equipment operators	—	—	—	—	5	—	5	—	—	—	13	—	—	—	2	—
Computer programmers	—	—	—	—	—	—	—	—	—	—	13	—	6	—	—	—
Other technicians, except health, engineering, and science	4	—	12	4	11	—	2	—	58	18	188	108	121	105	33	17
	21	—	33	3	13	—	4	—	49	31	120	46	148	65	38	5

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																	
Manufacturing—Con																	
Furniture and fixtures		Stone, clay, glass, and concrete products		Primary iron and steel industries		Primary nonferrous industries		Fabricated metal industries		Machinery, except electrical		Electrical machinery, equipment, and supplies		Motor vehicles and motor vehicle equipment			
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		
Experienced unemployed 16 years and over—Con.																	
348	118	271	230	180	15	200	64	691	251	1 139	344	824	367	495	110		
30	—	2	—	7	—	6	8	69	8	90	16	91	12	27	6		
21	—	2	—	7	—	6	8	69	8	90	16	91	12	27	6		
9	8	—	—	—	—	—	—	—	9	7	—	—	7	—	—		
306	81	267	193	168	3	159	32	597	156	942	234	643	221	300	41		
29	29	2	37	5	12	20	17	25	78	100	87	90	84	168	63		
12	6	—	37	5	12	7	12	25	28	2	45	35	45	23	40		
23	23	2	—	—	—	13	5	25	50	98	42	90	49	123	40		
—	—	—	—	—	—	15	7	—	—	—	7	—	—	—	—		
1 058	1 678	955	2 261	1 861	2 073	812	1 090	2 814	5 018	4 658	8 269	3 546	7 242	4 630	3 993		
42	25	45	32	132	12	65	44	241	119	330	142	236	142	245	153		
11	46	3	58	18	16	20	22	58	116	204	282	73	186	121	140		
4	540	773	8	15	749	8	443	22	1 667	38	3 060	56	2 203	11	1 282		
4	432	—	682	—	575	8	443	16	1 329	32	2 580	48	1 823	4	1 034		
108	174	—	91	15	174	—	73	6	338	6	480	8	380	7	248		
—	52	—	104	13	35	—	32	7	169	—	275	—	365	—	55		
—	23	—	4	13	—	20	—	5	22	20	23	10	64	39	28		
9	50	37	69	100	21	19	54	113	117	148	319	90	330	209	97		
31	69	54	52	54	73	6	25	100	145	227	257	130	229	134	150		
27	171	22	416	51	149	27	127	97	728	143	960	61	671	74	318		
9	62	—	40	40	81	12	26	65	152	82	172	24	122	83	74		
22	23	18	58	25	65	—	14	5	53	16	128	32	103	38	5		
6	23	3	38	—	23	15	15	—	5	6	91	5	153	13	38		
35	12	25	21	70	13	12	9	72	22	94	69	87	88	67	39		
137	86	104	65	257	99	40	8	291	198	567	316	550	344	960	404		
471	79	280	68	403	108	329	23	971	204	1 234	220	948	219	1 004	232		
166	66	195	45	169	35	108	45	486	300	1 014	429	768	532	1 206	312		
32	24	60	71	217	102	25	7	112	83	52	115	47	110	27	27		
6	19	11	—	7	14	11	2	19	40	67	22	44	65	23	15		
8	33	10	64	7	202	2	68	14	149	37	445	71	376	19	261		
64	266	88	282	257	274	108	126	136	624	379	1 061	314	1 026	276	430		
556	128	1 028	173	2 130	488	615	122	1 898	383	2 506	606	1 859	743	3 613	826		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
119	2	111	5	269	13	90	6	251	7	271	37	275	54	326	54		
113	2	104	5	234	8	90	6	238	7	271	37	250	54	312	46		
6	—	—	—	35	5	—	—	13	—	—	—	25	—	14	8		
437	126	917	168	1 861	475	525	116	1 647	376	2 235	569	1 584	689	3 287	772		
23	32	4	21	28	42	11	23	8	34	55	113	45	34	55	95		
—	—	—	—	—	—	—	—	—	—	—	—	9	16	12	8		
407	92	913	134	1 788	431	500	88	1 636	319	2 150	400	1 530	501	3 200	641		
7	2	—	13	43	2	14	5	2	15	27	27	—	25	20	28		
28	—	42	9	72	14	31	4	69	7	105	8	53	29	57	20		
6 310	1 844	5 091	579	8 891	388	3 025	334	12 969	1 130	20 600	2 220	9 357	8 298	22 454	2 123		
345	43	1 065	29	2 844	149	683	58	2 394	147	4 764	317	2 551	986	10 065	502		
7	—	1	6	28	—	25	—	28	—	21	—	15	—	21	—		
132	—	182	3	47	—	25	8	135	—	402	35	93	40	4 584	237		
—	—	429	6	596	43	284	12	989	6	1 122	22	579	85	1 922	41		
—	—	19	—	55	5	6	—	22	—	48	7	457	206	209	9		
10	—	12	—	22	—	4	—	59	—	352	19	80	5	40	—		
189	43	422	20	2 096	101	358	38	1 161	138	2 819	234	1 327	650	3 289	215		
1 372	168	1 912	148	2 328	73	601	33	2 643	218	1 697	119	1 162	340	2 942	293		
7	—	84	—	44	—	16	—	42	—	29	—	27	—	23	—		
1 149	106	1 341	23	179	—	110	—	397	25	217	15	130	28	262	55		
48	8	138	—	634	11	174	8	335	25	424	65	686	234	1 110	64		
88	36	65	31	154	13	24	13	329	42	313	10	120	53	635	99		
12	12	62	5	427	10	80	—	343	41	426	—	87	41	693	8		
68	18	1 429	89	890	39	197	12	1 197	100	288	29	112	25	219	67		

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States																	
Manufacturing—Con.																	
Furniture and fixtures		Stone, clay, glass, and concrete products		Primary iron and steel industries		Primary nonferrous industries		Fabricated metal industries		Machinery, except electrical		Electrical machinery, equipment, and supplies		Motor vehicles and motor vehicle equipment			
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female		
Experienced unemployed 16 years and over—Con.																	
Precision production, craft, and repair occupations—Con.																	
Extractive occupations																	
Precision production occupations																	
Supervisors, production occupations																	
Precision metalworking occupations																	
Tool and die makers																	
Machinists																	
Sheet metal workers																	
Other precision metal workers																	
Precision textile, apparel, and furnishings machine workers																	
Precision food production occupations																	
Precision inspectors, testers, and related workers																	
Plant and system operators																	
Other precision production occupations																	
Operators, fabricators, and laborers																	
Machine operators, assemblers, and inspectors																	
Machine operators and tenders, except precision																	
Metalworking and plastic working machine operators																	
Fabricating machine operators, n.e.c.																	
Metal and plastic processing and woodworking machine operators																	
Printing machine operators																	
Textile machine operators																	
Textile sewing machine operators																	
Laundry and dry cleaning machine operators																	
Packaging and filling machine operators																	
Furnace, kiln, and oven operators, except food																	
Other specified machine operators																	
Miscellaneous and not specified machine operators																	
Fabricators, assemblers, and hand working occupations																	
Welders and cutters																	
Soldiers and brazers																	
Assemblers																	
Hand working occupations																	
Production inspectors, testers, samplers, and weighers																	
Graders and sorters, except agricultural																	
Other production inspectors, testers, samplers, and weighers																	
Transportation and material moving occupations																	
Transportation occupations																	
Motor vehicle operators																	
Truck drivers																	
Driver-sales workers																	
Other motor vehicle operators																	
Rail and water transportation occupations																	
Material moving equipment operators																	
Supervisors, material moving equipment operators																	
Crane, hoist and winch operators																	
Excavating, grading, and dozer machine operators																	
Other material moving equipment operators																	
Handlers, equipment cleaners, helpers, and laborers																	
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.																	
Helpers, craft and production																	
Construction laborers																	
Freight, stock, and material handlers																	
Garage and service station occupations, and equipment cleaners																	
Hand packers and packagers																	
Laborers, except construction																	
Experienced unemployed not classified by occupation																	

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Manufacturing—Con				Other durable goods				Total		Transportation, communications, and other public utilities			
	Aircraft, space vehicles, and parts		Other transportation equipment		Other durable goods		Total		Trucking service and warehousing		Railroads		Other transportation	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Experienced unemployed 16 years and over	12 858	6 129	27 343	7 230	48 861	58 201	252 341	63 723	31 182	1 650	115 595	15 713	56 642	23 130
Managerial and professional specialty occupations	1 840	313	829	198	3 396	1 774	12 402	5 055	871	82	2 164	620	3 281	1 323
Executive, administrative, and managerial occupations	558	186	558	165	2 263	1 126	6 887	2 796	726	42	2 063	591	2 259	1 129
Officials and administrators, public administration	7	—	—	—	—	—	—	20	—	—	—	—	—	20
Financial managers	7	—	7	—	83	13	139	54	5	—	51	4	43	18
Managers, marketing, advertising, and public relations	27	—	50	24	243	114	401	138	13	—	55	40	148	86
Administrators, education and related fields	—	—	6	—	—	—	5	9	—	—	—	—	5	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	23	6	32	14	82	75	283	247	—	—	41	35	177	165
Managers and administrators, n.e.c.	216	61	302	39	1 525	557	4 811	1 603	594	8	1 644	438	1 441	619
Salaries	216	61	281	39	1 436	526	4 425	1 568	594	8	1 388	422	1 349	600
Self-employed	—	—	21	—	89	31	386	35	—	—	256	16	92	19
Management related occupations	285	119	161	81	330	367	1 248	725	109	26	272	114	445	221
Accountants and auditors	85	40	29	34	150	161	511	438	37	24	124	83	168	170
Personnel, training, and labor relations specialists	56	23	12	9	8	92	294	125	29	2	66	26	132	16
Buyers and purchasing agents	115	36	55	38	116	71	130	44	4	—	37	—	46	27
Inspectors and compliance officers	4	—	45	—	14	26	189	33	39	—	18	—	29	—
Other management related occupations	25	20	20	—	42	17	124	85	—	—	27	5	70	8
Professional specialty occupations	1 282	127	271	33	1 133	648	5 515	2 259	145	40	101	29	1 022	194
Engineers, architects, and surveyors	984	40	183	8	673	49	1 698	117	100	14	41	4	701	9
Architects	—	—	—	—	22	—	—	—	—	—	—	—	—	—
Engineers	984	40	183	8	651	49	1 685	113	100	14	41	4	696	9
Civil engineers	15	—	7	—	11	—	232	20	71	9	7	—	—	—
Electrical and electronic engineers	145	7	—	—	90	—	524	50	6	—	5	—	10	—
Industrial engineers	193	13	26	8	135	35	64	29	5	—	6	4	16	—
Mechanical engineers	65	—	33	—	60	—	98	—	21	—	21	—	43	—
Other engineers	566	20	117	—	355	14	767	14	23	—	2	—	627	9
Surveyors and mapping scientists	—	—	—	—	—	—	13	4	—	—	—	—	5	—
Computer systems analysts and scientists	28	24	—	—	6	17	24	5	4	5	—	—	—	—
Operations and systems researchers and analysts	38	7	—	—	33	—	36	31	—	—	15	—	14	12
Mathematical scientists	15	14	—	—	7	7	22	6	—	—	—	—	6	—
Natural scientists	20	—	—	—	48	58	95	35	9	—	—	—	—	8
Chemists, except biochemists	—	—	—	—	33	20	43	8	—	—	—	—	—	—
Other natural scientists	20	—	—	—	15	38	52	27	9	—	—	—	—	—
Health diagnosing occupations	—	—	—	—	10	—	6	—	—	—	—	—	—	—
Health assessment and treating occupations	—	16	—	13	5	21	71	54	—	—	—	—	71	28
Registered nurses	—	16	—	13	5	21	71	54	—	—	—	—	—	—
Other health assessment and treating occupations	—	—	—	—	5	—	71	6	—	—	—	—	—	—
Teachers, except postsecondary	39	—	13	—	21	19	122	64	—	—	6	—	92	35
Social scientists and urban planners	32	—	6	—	39	23	106	52	—	6	20	3	21	—
Social and recreation workers	—	—	—	—	—	10	12	16	—	—	—	—	—	—
Lawyers and judges	—	—	—	—	—	—	8	—	—	—	—	—	8	—
Writers, artists, entertainers, and athletes	126	11	69	12	277	433	3 271	1 841	32	8	12	22	109	76
Other professional specialty occupations	—	15	—	—	14	11	44	21	—	—	7	—	—	—
Technical, sales, and administrative support occupations	1 539	1 787	1 128	1 408	5 311	9 260	28 276	40 167	1 315	849	5 767	9 097	14 490	13 640
Technicians and related support occupations	653	1 128	252	60	872	449	3 675	907	25	21	72	59	2 145	255
Health technologists and technicians	8	—	—	2	32	17	325	170	—	7	—	5	253	132
Licensed practical nurses	—	—	—	—	—	—	—	13	—	—	—	—	—	—
Other health technologists and technicians	8	—	—	—	32	17	325	157	—	7	—	5	253	132
Engineering and science technicians	454	90	208	30	643	325	953	341	14	9	36	30	224	45
Electrical and electronic technicians	84	16	30	6	171	34	285	51	6	—	8	6	12	—
Industrial and mechanical engineering technicians	50	7	6	—	22	11	22	12	—	—	—	—	—	—
Drafting and surveying technicians	201	43	130	21	200	67	281	210	8	—	17	8	67	37
Other engineering and science technicians	119	24	42	3	250	213	365	68	—	9	11	16	139	8
Technicians, except health, engineering, and science	191	38	44	28	197	107	2 397	396	11	5	36	24	1 668	78
Airplane pilots and navigators	8	—	—	—	6	—	1 589	16	—	—	17	—	1 562	16
Airframe controllers and broadcast equipment operators	—	—	—	—	—	—	354	127	—	—	—	—	35	—
Computer programmers	103	22	21	17	56	38	137	69	—	5	18	24	21	39
Other technicians, except health, engineering, and science	76	16	23	11	135	69	347	154	11	—	—	—	30	17

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Manufacturing—Con.				Transportation, communications, and other public utilities			
	Aircraft, space vehicles, and parts		Other transportation equipment		Other durable goods		Total	
	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.								
Sales occupations	29	18	83	33	1 098	702	3 006	3 675
Supervisors and proprietors, sales occupations	8	—	11	5	92	40	203	44
Solated	8	—	11	5	83	40	171	41
Self-employed	—	—	—	—	9	—	32	3
Sales representatives, finance and business services	—	—	—	—	—	—	2 068	2 378
Sales representatives, commodities, except retail	19	18	59	28	979	534	13	—
Sales workers, retail and personal services	—	—	13	—	21	91	712	1 253
Cashiers	—	—	—	—	7	45	489	942
Other sales occupations, retail and personal services	—	—	13	—	14	46	223	311
Sales related occupations	2	—	—	—	6	27	10	—
Administrative support occupations, including clerical	857	1 641	793	1 315	3 341	8 109	21 595	35 585
Supervisors, administrative support occupations	26	21	52	26	240	171	166	789
Computer equipment operators	16	50	11	42	46	61	229	389
Secretaries, stenographers, and typists	12	625	13	451	27	2 171	266	6 607
Secretaries	12	486	9	362	13	1 680	198	5 077
Stenographers and typists	137	137	7	109	14	1 401	168	1 900
Receptionists	—	16	—	42	21	395	6	—
Other information clerks	—	—	—	—	—	—	160	2 222
File clerks	10	89	—	33	60	325	106	889
Other records processing occupations, except financial	32	53	25	11	145	424	478	1 331
Bookkeepers, accounting, and auditing clerks	12	93	12	168	105	939	425	2 994
Payroll and timekeeping clerks	—	2	43	27	26	112	148	315
Other financial records processing occupations	—	—	8	2	13	128	331	1 101
Telephone operators	—	8	—	6	—	42	668	4 910
Mail and message distributing occupations	11	29	14	8	171	132	7 818	4 071
Production coordinators and expeditors	207	108	159	82	234	353	312	470
Traffic, shipping, and receiving clerks	140	39	177	21	243	412	2 140	613
Stock and inventory clerks	251	137	177	107	575	511	1 071	365
Other material recording, scheduling, and distributing clerks	14	—	14	17	42	89	3 128	1 182
Adjusters and investigators	3	—	8	11	64	48	230	—
Data-entry keyers	—	94	—	49	20	304	78	759
Other administrative support occupations	123	269	80	212	309	1 338	1 835	5 261
Service occupations	435	152	640	104	1 785	478	9 312	4 213
Private household occupations	—	—	—	—	—	—	—	—
Protective service occupations	57	5	139	9	299	42	1 374	315
Guards	51	—	115	—	283	42	1 302	308
Other protective service occupations	6	—	24	9	16	—	72	7
Service occupations, except protective and household	378	147	501	95	1 486	436	7 938	3 898
Food preparation and service occupations	7	30	26	—	64	82	1 329	847
Health service occupations	—	—	—	—	—	34	151	121
Cleaning and building service occupations, except household	371	117	468	95	1 388	263	4 691	868
Personal service occupations	—	—	—	—	34	57	1 767	2 062
Farming, forestry, and fishing occupations	21	—	39	—	49	42	731	97
Precision production, craft, and repair occupations	3 459	1 050	9 579	1 365	8 984	5 917	30 032	1 835
Mechanics and repairers	865	95	1 712	137	1 897	717	16 866	1 034
Supervisors, mechanics and repairers	11	—	11	—	7	—	332	17
Automobile mechanics, including body	16	—	97	—	73	26	2 036	17
Industrial machinery repairers	65	4	452	23	684	112	346	17
Electronic repairers, communications and industrial equipment	52	13	16	—	45	11	1 116	41
Heating, air conditioning, and refrigeration mechanics	11	—	15	—	41	—	84	—
Other mechanics and repairers	710	71	1 149	114	1 032	568	12 772	972
Construction trades	297	140	4 845	777	955	256	8 151	271
Supervisors, construction occupations	—	—	64	2	7	—	328	5
Carpenters	49	—	1 850	200	421	44	1 337	13
Electricians	114	111	613	61	98	30	1 826	67
Painters, construction and maintenance	51	6	714	129	149	157	563	20
Plumbers, pipefitters, and steamfitters	54	—	1 044	219	131	—	1 053	6
Other construction trades	29	23	540	166	149	25	3 044	125
Other transportation								
Male	1 213	—	—	—	—	—	—	—
Female	2 248	—	—	—	—	—	—	—
Trucking service and warehousing								
Male	811	—	—	—	—	—	—	—
Female	332	—	—	—	—	—	—	—
Railroads								
Male	87	—	—	—	—	—	—	—
Female	23	—	—	—	—	—	—	—
Other transportation								
Male	1 132	—	—	—	—	—	—	—
Female	1 137	—	—	—	—	—	—	—

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Manufacturing—Con.				Transportation, communications, and other public utilities							
	Aircraft, space vehicles, and parts		Other transportation equipment		Other durable goods		Total		Railroads		Trucking service and warehousing	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
United States												
Experienced unemployed 16 years and over—Con.												
Precision production, craft, and repair occupations—Con												
Extractive occupations	2 297	815	6	—	7	—	60	—	8	—	—	—
Precision production occupations	2 297	815	2 986	451	6 130	4 944	4 933	510	566	149	16	—
Supervisors, production occupations	2 277	20	697	55	1 717	1 101	2 055	192	54	1 72	531	80
Precision metalworking occupations	1 780	545	1 951	218	3 044	1 895	3 044	23	354	44	220	20
Tool and die makers	170	—	37	—	251	19	33	—	—	13	99	5
Machinists	684	45	402	46	1 075	284	501	12	305	16	—	—
Sheet metal workers	476	268	244	60	1 564	1 581	115	11	16	—	43	5
Other precision metal workers	450	232	1 268	112	1 564	1 581	286	11	33	—	50	—
Precision textile, apparel, and furnishings machine workers	31	44	48	79	115	215	44	32	6	15	6	—
Precision food production occupations	7	—	7	—	17	23	163	48	—	146	17	17
Precision inspectors, testers, and related workers	108	29	31	—	121	539	276	73	135	9	72	23
Plant and system operators	2	—	47	—	61	171	1 410	142	29	20	101	15
Other precision production occupations	92	177	205	98	1 055	—	50	8	—	23	—	—
Operators, fabricators, and laborers	5 564	2 897	15 128	4 155	29 336	40 730	171 588	12 356	23 790	5 482	28 980	4 701
Machine operators, assemblers, and inspectors	4 875	2 967	11 594	3 437	20 878	34 885	8 766	1 451	3 289	792	1 207	139
Machine operators and tenders, except precision	2 967	969	3 122	430	12 883	14 881	4 111	712	1 735	619	640	103
Metalworking and plastic working machine operators	167	280	804	273	2 386	1 891	350	42	186	38	63	—
Ranching machine operators, n.e.c.	153	79	99	9	61	131	10	—	—	—	—	—
Metal and plastic processing and woodworking machine operators	153	33	580	46	1 166	942	90	11	24	12	27	—
Printing machine operators	9	—	31	13	168	181	50	41	—	—	20	7
Textile machine operators	13	4	247	125	115	158	7	23	—	11	20	—
Textile weaving and finishing machine operators	103	—	22	184	113	1 571	19	17	—	10	—	5
Laundry and dry cleaning machine operators	—	—	—	—	18	—	22	—	—	—	—	—
Packaging and filling machine operators	—	—	59	—	76	598	50	7	4	17	7	—
Furnace, kiln, and oven operators, except food	21	—	7	12	130	36	206	13	13	22	81	—
Other specified machine operators	321	153	550	184	1 930	1 566	401	80	46	138	104	15
Miscellaneous and not specified machine operators	839	311	1 113	574	6 320	8 155	2 936	478	1 462	360	338	70
Fabricators, assemblers, and hand working occupations	2 012	1 380	7 855	1 909	7 726	16 436	3 230	334	1 255	451	455	24
Welders and cutters	421	78	4 909	457	2 007	393	2 490	66	1 082	282	293	7
Soldiers and brazers	12	85	16	4	77	394	7	18	—	—	—	5
Assemblers	1 540	1 189	2 542	1 346	5 209	15 083	595	234	102	155	118	12
Hand working occupations	39	28	388	102	433	566	138	16	71	14	44	—
Production inspectors, testers, samplers, and weighers	387	258	217	108	669	2 968	805	405	219	255	334	12
Graders and sorters, except agricultural	—	6	—	—	30	212	114	307	11	103	112	10
Other production inspectors, testers, samplers, and weighers	387	252	217	108	639	2 756	691	98	208	152	112	2
Transportation and material moving occupations	283	29	1 111	87	2 592	495	112 385	6 925	9 123	78 164	20 948	3 750
Transportation occupations	116	2	397	33	1 045	56	106 809	6 694	8 534	75 588	2 548	3 670
Motor vehicle operators	116	2	304	23	1 033	56	92 301	6 326	631	75 515	2 548	3 506
Truck drivers	103	2	286	23	967	31	80 170	2 913	578	74 898	2 448	205
Driver-sales workers	5	—	7	—	—	6	173	30	13	123	30	—
Other motor vehicle operators	8	—	11	—	66	19	11 958	3 383	40	494	70	301
Rail and water transportation occupations	—	—	93	10	12	—	14 508	368	7 903	73	11 281	3 301
Material moving equipment operators	167	27	714	54	1 547	439	5 576	231	589	2 576	6 501	1 664
Supervisors, material moving equipment operators	—	—	—	—	7	—	334	6	134	95	1 425	80
Crane, hoist, and winch operators	23	—	195	4	83	2	469	—	116	95	84	—
Excavating, grading, and dozer machine operators	—	—	—	—	12	—	487	38	98	49	24	5
Other material moving equipment operators	144	27	519	50	1 445	437	4 286	187	241	2 359	1 190	75
Handlers, equipment cleaners, helpers, and laborers	406	191	2 433	631	5 866	5 950	51 027	3 980	11 458	20 613	6 825	812
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	—	—	—	—	—	8	51	6	—	14	23	6
Helpers, craft and production	77	34	427	103	314	56	1 047	68	203	213	144	15
Construction laborers	12	—	90	2	87	5	511	70	523	63	65	7
Freight, stock, and material handlers	23	11	256	2	975	343	25 176	1 174	185	15 331	4 234	346
Garage and service station occupations, and equipment cleaners	29	—	56	65	107	103	1 418	133	52	534	707	93
Hand packers and packagers	39	20	87	63	1 011	3 617	1 136	136	18	902	902	162
Laborers, except construction	226	114	1 517	396	3 372	1 818	20 851	1 393	10 477	3 677	1 521	183
Experienced unemployed not classified by occupation	—	—	—	—	—	—	—	—	—	—	—	—

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

		Transportation, communications, and other public utilities—Con.				Wholesale trade				Retail trade							
		Communications		Utilities and sanitary services		Total		Groceries and farm products		Total		General merchandise stores		Food, bakery, and dairy stores		Automotive dealers and gasoline stations	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
United States																	
Experienced unemployed 16 years and over																	
Managerial and professional specialty occupations	14 863	16 715	6 515	34 059	11 119	132 051	69 015	32 445	20 073	517 520	639 824	41 025	102 770	70 362	81 159	110 158	25 790
Executive, administrative, and managerial occupations	4 425	2 593	1 661	1 661	437	9 847	4 541	1 947	827	36 034	32 780	2 659	4 463	2 807	2 317	4 153	1 252
Officials and administrators, public administration	872	714	967	320	320	8 728	3 654	1 835	725	31 665	26 215	2 198	3 495	2 755	2 187	4 063	1 230
Financial managers	12	12	28	20	20	311	209	28	32	369	471	27	60	14	20	130	105
Managers, marketing, advertising, and public relations	160	45	25	25	7	1 744	264	284	30	3 271	2 181	258	389	187	137	1 096	101
Administrators, education and related fields	—	7	—	—	—	15	—	—	—	13	—	—	—	—	—	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	40	26	20	20	13	166	93	41	24	935	808	124	250	108	99	128	39
Managers and administrators, n.e.c.	504	423	628	115	115	4 566	1 950	708	333	24 512	18 840	1 173	1 447	2 138	1 620	2 490	819
Managers and administrators, n.e.c.	488	423	606	115	115	4 321	1 896	691	324	21 892	17 193	1 161	1 436	1 965	1 539	2 371	812
Self-employed	16	—	22	22	—	245	54	17	9	2 620	1 647	12	11	173	81	119	7
Management related occupations	156	201	266	163	163	1 926	1 138	774	306	2 565	3 915	616	1 349	308	311	219	166
Accountants and auditors	92	66	89	47	47	1 132	411	143	120	1 048	578	121	214	129	135	87	12
Buyers and purchasing agents	20	17	27	17	17	132	45	69	28	390	512	44	129	47	57	12	22
Inspectors and compliance officers	20	17	27	17	17	132	45	69	28	390	512	44	129	47	57	12	22
Other management related occupations	5	—	9	9	—	13	37	536	134	1 336	2 130	399	950	187	86	50	32
Professional specialty occupations	3 553	1 879	694	117	117	1 119	887	112	102	4 369	6 565	461	968	52	130	90	22
Engineers, architects, and surveyors	397	57	459	33	33	371	47	23	23	180	33	5	6	9	3	16	—
Engineers	—	—	—	—	—	2	—	—	—	38	19	—	—	2	—	—	—
Civil engineers	397	57	451	29	29	361	47	23	23	142	14	5	6	7	3	16	—
Electrical and electronic engineers	6	—	148	11	11	54	—	—	—	—	—	—	—	—	—	—	—
Industrial engineers	325	50	178	13	13	43	—	—	—	32	14	5	—	—	—	—	—
Mechanical engineers	17	7	25	13	13	65	42	16	23	43	14	—	6	—	3	6	—
Other engineers	5	—	29	13	13	79	—	7	—	11	—	—	—	—	—	—	—
Surveyors and mapping scientists	44	—	71	5	5	120	5	—	—	45	—	—	—	7	—	10	—
Computer systems analysts and scientists	—	—	8	4	4	8	—	—	—	—	—	—	—	—	—	—	—
Operations and systems researchers and analysts	—	—	20	—	—	60	30	3	—	45	31	14	7	—	—	—	—
Mathematical scientists	—	12	7	6	6	17	18	10	6	9	4	2	14	—	4	—	—
Natural scientists	7	10	16	17	17	104	58	27	10	16	49	—	—	—	—	—	—
Chemists, except biochemists	—	—	43	31	31	31	50	20	10	—	13	—	—	—	—	—	—
Other natural scientists	10	10	36	17	17	73	28	7	—	16	36	—	—	—	—	—	—
Health diagnosing occupations	6	—	—	—	—	7	—	—	—	23	25	—	—	—	5	—	—
Health assessment and treating occupations	—	24	—	—	—	7	34	—	—	1 012	596	13	42	25	—	—	—
Registered nurses	—	24	—	2	2	7	12	—	—	6	61	—	12	—	—	—	—
Other health assessment and treating occupations	—	—	—	—	—	—	—	—	—	1 008	535	13	30	25	—	—	—
Teachers, except postsecondary	—	13	24	16	16	13	62	—	5	151	322	7	82	7	—	—	—
Social scientists and urban planners	29	28	36	3	3	105	40	18	—	10	64	—	16	—	25	—	—
Social and recreation workers	11	7	1	—	—	6	—	—	—	59	17	—	9	—	—	—	—
Lawyers and judges	—	12	—	—	—	12	—	—	—	13	—	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	3 069	1 710	49	25	391	556	31	58	—	2 811	5 366	420	787	18	86	37	22
Other professional specialty occupations	34	6	3	15	15	16	20	—	—	33	25	—	5	—	—	11	—
Technical, sales, and administrative support occupations	3 598	12 502	3 106	4 079	31 805	31 805	39 038	4 522	6 777	128 359	326 507	18 827	86 053	21 678	59 320	26 806	18 608
Technicians and related support occupations	769	405	664	167	776	776	409	34	96	687	306	91	24	40	43	118	433
Health technologists and technicians	—	—	72	18	8	8	2	—	—	29	105	5	26	—	13	—	—
Licensed practical nurses	—	—	—	13	8	—	—	—	—	5	30	5	17	—	9	—	8
Other health technologists and technicians	—	—	72	13	8	—	—	—	—	24	75	—	20	—	9	—	—
Engineering and science technicians	331	156	348	101	418	418	236	25	77	350	176	23	23	37	18	46	8
Electrical and electronic technicians	214	39	53	19	99	99	17	—	—	128	23	4	—	—	5	8	—
Mechanical and mechanical engineering technicians	6	—	2	—	14	14	35	8	—	44	—	—	—	18	—	5	—
Drafting and surveying technicians	59	113	130	52	123	123	35	17	77	87	66	8	20	3	12	33	8
Other engineering and science technicians	52	15	163	30	180	180	184	17	—	91	87	11	3	19	6	—	—
Technicians, except health, engineering, and science	438	249	244	40	350	350	171	9	19	308	625	63	23	3	12	72	417
Airplane pilots and navigators	12	—	15	—	19	19	—	—	—	25	—	—	—	—	—	6	—
Air traffic controllers and broadcast equipment operators	241	88	11	—	7	7	—	—	—	17	—	—	—	—	—	7	—
Computer programmers	54	44	44	22	110	110	99	—	19	87	83	7	9	—	—	4	11
Other technicians, except health, engineering, and science	131	119	174	18	221	221	65	9	—	179	535	56	14	3	5	55	406

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Transportation, communications, and other public utilities—Con.				Wholesale trade				Retail trade			
	Communications		Utilities and sanitary services		Total		Groceries and farm products		Total		General merchandise stores	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.												
Sales occupations	652	851	243	221	19 106	8 228	2 785	1 856	105 330	261 225	13 138	70 120
Supervisors and proprietors, sales occupations	12	10	49	—	1 915	459	298	87	21 099	12 860	1 968	2 896
Salaried	12	10	49	—	1 384	403	239	70	3 381	2 819	1 883	2 896
Self-employed	—	—	—	—	531	56	59	17	3 788	1 979	85	77
Sales representatives, finance and business services	544	551	138	54	36	39	6	851	121	157	35	28
Sales representatives, commodities, except retail	—	—	—	—	15 276	5 350	2 342	851	45	—	—	—
Sales workers, retail and personal services	96	290	5	167	2 260	2 860	122	828	83 979	245 363	11 109	67 056
Cashiers	5	113	32	158	1 236	1 936	19	744	18 211	21 866	1 093	23 671
Other sales occupations, retail and personal services	91	177	9	9	1 584	638	23	84	65 788	123 577	10 016	43 387
Sales related occupations	—	—	—	—	29	120	17	83	86	866	26	138
Administrative support occupations, including clerical	2 177	11 246	2 199	3 491	11 923	30 391	1 703	4 825	22 342	64 376	5 598	15 859
Supervisors, administrative support occupations	345	279	64	64	788	557	110	92	22	143	173	177
Computer equipment operators	72	129	12	39	200	839	51	143	281	816	85	172
Secretaries, stenographers, and typists	54	1 398	41	1 206	143	839	15	1 030	10 881	14 663	13	1 172
Secretaries	27	1 034	13	884	83	7 224	15	908	108	9 049	14	792
Stenographers and typists	27	364	28	322	80	1 104	—	122	97	241	13	241
Receptionists	—	280	—	74	10	161	—	158	46	2 289	6	65
Other information clerks	43	210	34	50	96	273	12	40	170	1 292	71	203
File clerks	18	230	14	88	109	847	15	72	103	1 114	6	203
Other records processing occupations, except financial	189	924	100	164	1 014	1 482	159	222	1 471	3 897	290	1 484
Bookkeepers, accounting, and auditing clerks	31	422	159	432	602	1 159	67	1 113	1 124	14 287	84	1 603
Payroll and timekeeping clerks	—	48	23	45	9	184	—	53	34	499	11	96
Other financial records processing occupations	5	109	29	141	117	1 060	29	153	234	1 859	58	655
Telephone operators	643	4 622	3	36	29	324	—	31	35	1 300	18	431
Mail and message distributing occupations	252	231	47	68	348	252	28	30	1 125	1 065	106	235
Production coordinators and expeditors	62	223	60	39	274	406	55	128	714	1 906	76	232
Traffic, shipping, and receiving clerks	38	19	60	34	3 650	845	462	119	9 420	1 682	312	887
Stock and inventory clerks	84	18	164	4	2 841	1 424	409	209	3 120	5 109	2 672	2 887
Other material recording, scheduling, and distributing clerks	21	193	1 066	227	477	666	155	268	629	1 763	127	1 126
Adjusters and investigators	34	103	49	47	193	404	15	42	428	1 347	60	584
Data-entry keyers	27	199	—	161	31	934	9	162	74	362	13	447
Other administrative support occupations	239	1 612	273	769	972	4 411	112	760	2 218	10 425	411	2 420
Service occupations	527	279	1 967	299	3 863	1 546	1 527	796	154 677	234 988	5 219	5 093
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	118	9	405	75	502	21	178	7	2 699	1 246	1 021	990
Guards	118	9	382	75	483	21	178	7	2 629	1 203	972	972
Other protective service occupations	—	—	23	—	9	—	—	—	70	43	—	—
Service occupations, except protective and household	409	270	1 562	224	3 361	1 525	789	789	151 978	233 742	4 198	4 103
Food preparation and service occupation	42	52	52	16	376	625	267	491	133 713	226 385	988	3 103
Health service occupations	2	11	1 491	188	17	21	6	—	214	704	—	14
Cleaning and building service occupations, except household	341	164	1 491	188	2 913	775	1 069	281	17 377	4 542	3 081	599
Personal service occupations	24	54	12	9	55	104	7	10	674	2 111	129	387
Farming, forestry, and fishing occupations	26	—	356	51	649	178	180	41	973	471	58	13
Precision production, craft, and repair occupations	5 163	899	9 377	420	19 036	2 733	3 506	1 002	60 650	10 059	3 085	1 199
Mechanics and repairers	4 529	791	1 763	60	8 533	313	584	28	35 148	871	1 914	137
Supervisors, mechanics and repairers	33	—	31	—	59	—	18	—	1 479	83	2	—
Automobile mechanics, including body	22	—	233	—	1 756	46	113	—	25 206	335	1 141	20
Industrial machinery repairers	37	—	241	2	717	43	146	7	616	22	87	—
Electronic repairers, communications and industrial equipment	892	41	117	—	139	11	7	—	1 244	30	151	—
Heating, air conditioning, and refrigeration mechanics	7	—	17	—	1 503	6	23	—	638	12	53	—
Other mechanics and repairers	3 538	750	1 123	58	4 359	207	277	21	5 965	389	480	117
Construction trades	532	43	5 287	161	4 302	138	90	26	10 359	399	535	40
Supervisors, construction occupations	28	—	801	5	62	2	—	—	229	6	30	—
Carpenters	103	—	1 266	45	704	48	39	17	2 867	97	300	—
Electricians	31	13	1 243	6	399	7	18	—	373	6	18	—
Painters, construction and maintenance	21	—	243	—	397	72	21	7	966	107	94	19
Plumbers, pipefitters, and steamfitters	23	—	764	15	1 286	7	7	—	240	7	7	—
Other construction trades	349	—	1 749	82	1 454	2	5	2	5 664	176	86	21
Automotive dealers and gasoline stations												
Male	34 518	8 058	17 890	5 385	1 968	2 896	1 968	2 896	10 493	44 401	1 792	4 806
Female	54 543	3 328	5 384	4 850	853	2 819	1 883	2 819	6 590	2 300	17 299	2 300
Food, bakery, and dairy stores												
Male	17 890	5 385	1 968	2 896	10 493	44 401	1 792	4 806	2 300	17 299	2 300	2 300
Female	54 543	3 328	5 384	4 850	853	2 819	1 883	2 819	6 590	2 300	17 299	2 300

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Transportation, communications, and other public utilities—Con.			Wholesale trade			Retail trade		
Communications			Utilities and sanitary services			Total		
Male	Female		Male	Female		Male	Female	
7	65	29	105	6	6	26	8 789	1 022
95	2 299	199	6 096	2 276	942	15 117	8 092	2 677
40	589	78	2 461	672	237	3 006	566	1 170
17	5	42	1 036	175	12	31	94	31
11	137	45	65	39	12	218	23	—
—	439	18	339	10	—	62	—	—
—	226	6	225	134	—	382	7	—
6	5	226	70	642	51	1 320	8	—
8	—	—	2 011	645	642	7 994	2 463	28
—	34	58	36	35	—	50	5	8
21	7	1 239	128	2	—	158	34	—
7	—	12	354	98	—	1 344	—	8
1 124	442	17 592	66 851	20 989	10 630	136 827	35 019	5 949
203	180	2 232	11 721	11 036	6 073	8 497	8 927	3 724
110	78	1 037	6 834	3 832	1 220	5 464	3 976	982
3	7	60	403	104	6	255	92	469
2	—	8	28	23	8	21	—	11
—	4	27	590	172	15	453	107	—
9	10	10	153	87	2	153	220	10
7	—	3	63	130	3	28	80	6
—	—	9	80	222	14	128	772	2
—	—	5	26	28	—	86	—	—
—	—	28	196	369	—	107	183	—
6	—	84	207	9	6	67	46	27
—	—	113	2 013	710	268	2 151	16	—
83	57	693	3 075	1 978	676	2 045	1 816	105
60	87	1 009	3 291	1 963	396	2 616	1 589	126
6	6	827	1 471	94	18	400	752	100
13	—	7	20	27	—	11	44	36
45	66	175	1 573	1 643	—	81	177	51
9	2	—	227	199	260	1 706	112	392
33	15	186	1 596	5 241	118	514	229	6
—	—	8	4 258	4 718	4 457	417	87	51
33	15	186	1 250	523	199	232	520	294
309	135	3 841	26 848	990	8 870	28 613	330	13
218	133	2 946	21 724	745	332	25 942	270	36
216	133	2 917	21 626	745	234	25 916	2 780	84
184	128	2 801	19 666	600	234	22 426	2 552	97
—	—	111	1 880	104	53	2 053	2 340	42
32	7	29	398	41	7	240	653	42
—	—	29	98	11	—	215	26	6
2	—	895	5 139	245	1 535	2 671	228	18
—	—	13	139	13	98	42	336	11
—	—	—	460	13	12	53	21	353
4	—	170	170	4	43	7	—	10
37	—	279	170	4	—	3	—	7
50	—	446	4 355	228	1 468	2 360	160	105
612	127	11 519	28 282	8 963	9 175	99 717	217	313
—	—	803	4 225	4 225	29 292	5 235	21	41
—	—	14	—	—	9 908	10 304	—	3 530
22	19	465	36	—	23	9	—	—
177	20	683	791	63	1 727	71	371	606
127	7	5 299	8 852	872	482	26	28	34
—	—	246	913	26	10 359	7 515	5 753	795
5	15	120	3 265	79	38 495	491	422	37 256
11	22	50	4 716	4 716	2 026	7 759	883	3 592
270	44	4 906	14 167	3 225	1 163	1 624	2 069	2 427
—	—	—	—	—	—	—	—	263

Experienced unemployed 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Extractive occupations
Precision production occupations
Supervisors, production occupations
Precision metalworking occupations
Tool and die makers
Machinists
Sheet metal workers
Other precision metal workers
Precision textile, apparel, and furnishings machine workers
Precision food production occupations
Precision inspectors, testers, and related workers
Plant and system operators
Other precision production occupations

Operators, fabricators, and laborers
Machine operators, assemblers, and inspectors
Machine operators and tenders, except precision
Metalworking and plastic working machine operators
Fabricating machine operators, n.e.c.
Metal and plastic processing and woodworking machine operators
Printing machine operators
Textile machine operators
Textile sewing machine operators
Laundry and dry cleaning machine operators
Packaging and filling machine operators
Furnace, kiln, and oven operators, except food
Other specified machine operators
Miscellaneous and not specified machine operators

Fabricators, assemblers, and hand working occupations
Welders and cutters
Soldiers and brazers
Assemblers
Hand working occupations
Production inspectors, testers, samplers, and weighers
Graders and sorters, except agricultural
Other production inspectors, testers, samplers, and weighers

Transportation and material moving occupations
Transportation occupations
Motor vehicle operators
Truck drivers
Other sales workers
Other motor vehicle operators
Rail and water transportation occupations
Material moving equipment operators
Supervisors, material moving equipment operators
Crane, hoist and winch operators
Excavating, grading, and dozer machine operators
Other material moving equipment operators

Handers, equipment cleaners, helpers, and laborers
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.
Helpers, craft and production
Construction laborers
Freight, stock, and material handlers
Garage and service station occupations, and equipment cleaners
Hand packers and packagers
Laborers, except construction

Experienced unemployed not classified by occupation

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

	Retail trade—Con.				Finance, insurance, and real estate									
	Apparel and accessory stores		Eating and drinking places		Other retail trade		Total		Banking and credit agencies		Insurance		Other finance and real estate	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Experienced unemployed 16 years and over	15 478	42 838	165 142	270 614	115 355	116 653	63 665	106 817	13 914	42 102	13 120	31 236	36 631	33 479
Managerial and professional specialty occupations	1 380	2 794	16 183	12 178	8 852	9 776	11 481	12 037	4 559	4 434	1 832	2 062	5 090	5 541
Executive, administrative, and managerial occupations	1 270	2 452	14 819	11 315	6 560	5 536	10 407	10 778	4 318	4 127	1 466	1 692	4 623	4 959
Officials and administrators, public administration	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Financial managers	26	50	6	10	166	226	1 324	981	1 211	914	29	11	84	56
Managers, marketing, advertising, and public relations	341	492	59	38	1 330	1 024	399	140	38	24	148	43	213	73
Administrators, education and related fields	6	—	—	—	7	—	7	7	—	—	—	—	—	7
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers	47	117	284	123	244	180	2 659	3 079	86	56	55	60	2 518	2 963
Managers and administrators, n.e.c.	635	1 247	14 152	10 750	3 924	2 957	2 607	2 546	580	600	699	680	1 328	1 266
Managers and administrators, n.e.c.	611	1 179	12 198	9 479	3 586	2 748	2 540	2 500	580	591	672	680	1 288	1 229
Self-employed	24	68	1 954	1 271	338	209	67	46	—	9	27	—	40	37
Management related occupations	215	546	318	394	889	1 149	3 418	4 025	2 403	2 533	535	898	480	594
Accountants and auditors	14	115	84	111	230	381	888	1 109	445	563	234	305	209	241
Personal, training, and labor relations specialists	11	39	134	189	109	76	157	347	50	162	34	125	73	20
Buyers and purchasing agents	177	385	67	34	456	643	66	54	26	22	20	16	20	16
Inspectors and compliance officers	9	—	3	8	9	—	130	87	24	7	69	41	37	39
Other management related occupations	13	7	30	52	85	49	2 177	2 428	1 858	1 779	178	411	141	238
Professional specialty occupations	110	342	1 364	863	2 292	4 240	1 074	1 259	241	307	366	370	467	582
Engineers, architects, and surveyors	—	6	41	10	109	8	217	49	9	—	104	11	104	38
Architects	—	6	17	10	19	3	33	23	—	—	—	—	33	23
Engineers	—	—	24	—	90	5	158	7	9	—	104	7	45	—
Civil engineers	—	—	11	—	—	—	52	—	—	—	22	—	30	—
Electrical and electronic engineers	—	—	4	—	23	—	69	7	—	—	7	—	7	—
Industrial engineers	—	—	6	—	31	5	5	—	—	—	62	7	—	—
Mechanical engineers	—	—	—	—	11	—	25	5	9	—	8	—	8	—
Other engineers	—	—	3	—	25	—	25	19	—	—	5	—	—	—
Surveyors and mapping scientists	—	—	—	—	—	—	26	—	—	—	4	—	26	15
Computer systems analysts and scientists	4	—	—	—	27	24	94	112	20	54	46	58	28	—
Operations and systems researchers and analysts	5	—	2	—	—	—	46	46	31	9	18	31	—	6
Mathematical scientists	7	5	—	—	—	14	73	69	12	21	61	48	—	—
Natural scientists	—	—	—	5	16	44	20	6	1	6	—	—	19	—
Chemists, except biochemists	—	—	—	—	—	13	6	6	—	—	—	—	6	—
Other natural scientists	—	—	—	5	16	31	14	—	1	—	—	—	13	—
Health diagnosing occupations	—	—	9	—	14	20	7	—	—	—	7	—	—	—
Health assessment and treating occupations	—	—	—	47	974	507	19	120	11	12	8	61	—	47
Registered nurses	—	—	—	35	6	14	7	108	7	12	—	61	—	35
Other health assessment and treating occupations	—	—	—	12	968	493	12	12	4	—	8	—	—	12
Teachers, except postsecondary	—	6	3	17	141	210	18	18	15	5	—	—	3	13
Social scientists and urban planners	—	—	4	2	6	21	118	116	51	42	19	24	48	30
Social and recreation workers	—	—	12	—	21	8	59	158	12	16	—	9	47	133
Lawyers and judges	—	—	6	—	7	—	120	42	22	21	61	21	37	11
Writers, artists, entertainers, and athletes	94	325	1 283	782	959	3 364	255	455	52	108	29	82	174	265
Other professional specialty occupations	—	—	4	—	18	20	25	68	5	4	13	25	7	39
Technical, sales, and administrative support occupations	10 411	35 364	5 291	36 555	45 346	90 607	27 777	88 148	7 344	36 513	10 232	28 609	10 201	23 026
Technicians and related support occupations	18	9	35	47	385	300	857	895	192	142	382	477	283	276
Health technicians and technicians	—	—	—	6	24	50	36	48	5	15	31	22	—	11
Licensed practical nurses	—	—	—	—	—	7	12	25	—	8	12	6	—	—
Other health technicians and technicians	—	—	—	—	24	43	24	23	5	7	19	16	—	—
Engineering and science technicians	16	—	32	23	196	104	96	59	18	—	29	23	49	36
Electrical and electronic technicians	—	—	9	—	107	23	11	11	—	—	—	11	—	—
Industrial and mechanical engineering technicians	—	—	—	—	—	—	7	—	—	—	—	—	7	—
Drafting and surveying technicians	—	—	21	—	—	35	48	26	—	—	24	6	24	20
Other engineering and science technicians	16	—	2	18	44	46	30	22	7	—	5	6	18	16
Technicians, except health, engineering, and science	2	9	3	18	165	146	725	788	169	127	322	432	234	229
Airplane pilots and navigators	—	—	—	—	16	7	5	—	—	—	5	—	—	—
Air traffic controllers and broadcast equipment operators	—	—	—	—	10	7	—	—	—	—	—	—	—	—
Computer programmers	—	—	—	—	76	56	268	209	115	68	131	120	21	21
Other technicians, except health, engineering, and science	2	9	—	18	63	83	452	579	34	59	—	—	212	208

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Retail trade—Con.				Finance, insurance, and real estate									
	Apparel and accessory stores		Eating and drinking places		Other retail trade		Total		Banking and credit agencies		Insurance		Other finance and real estate	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.														
Sales occupations	9 126	31 028	4 226	32 725	36 432	64 751	14 439	13 290	392	883	6 347	3 622	7 700	8 785
Supervisors and proprietors, sales occupations	1 443	2 650	609	421	6 310	4 611	199	123	25	37	50	33	124	53
Salaried	1 313	2 391	509	367	4 715	3 580	162	112	25	37	50	33	87	42
Self-employed	130	259	100	54	1 535	1 031	37	11	—	—	—	—	37	11
Sales representatives, finance and business services	—	18	—	4	30	72	13 847	11 495	311	148	6 225	3 352	7 311	7 995
Sales representatives, commodities, except retail	7	—	—	—	29 982	59 621	373	3	—	—	3	—	—	—
Sales workers, retail and personal services	7 677	28 322	3 610	32 245	29 995	15 762	373	1 631	56	673	58	229	259	729
Cashiers	143	3 277	2 695	29 849	1 995	15 762	104	904	39	597	32	113	33	194
Other sales occupations, retail and personal services	7 534	25 045	2 416	27 992	27 992	43 839	269	727	17	76	26	116	226	535
Sales related occupations	—	38	—	35	53	447	17	41	—	25	11	8	6	8
Administrative support occupations, including clerical	1 267	4 327	1 030	3 783	8 529	25 556	12 481	73 963	6 760	35 488	3 503	24 510	2 218	13 965
Supervisors, administrative support occupations	37	138	91	87	314	622	915	1 535	449	711	285	596	181	228
Computer equipment operators	19	417	—	2	129	314	609	1 086	399	652	168	345	42	89
Secretaries, stenographers, and typists	—	43	15	865	109	5 241	331	21 754	132	5 321	65	9 344	134	7 089
Secretaries	—	355	9	815	54	4 257	221	16 500	103	3 821	16	6 550	78	6 129
Stenographers and typists	—	62	6	50	55	984	110	5 254	29	1 500	25	2 794	56	960
Receptionists	—	58	5	206	18	1 212	67	2 807	11	735	17	728	39	1 344
Other information clerks	5	97	—	56	57	438	231	1 149	166	771	16	163	49	215
File clerks	—	58	8	9	84	507	486	3 770	190	1 096	239	2 356	57	318
Other records processing occupations, except financial	40	126	95	301	665	1 694	317	1 854	124	413	60	1 289	133	152
Bookkeepers, accounting, and auditing clerks	68	920	190	1 279	503	5 759	918	6 681	511	3 737	130	1 374	277	1 570
Payroll and timekeeping clerks	14	61	—	68	7	140	19	175	13	43	—	32	6	100
Other financial records processing occupations	14	115	22	58	82	653	211	1 999	172	1 168	39	790	—	41
Telephone operators	—	54	6	43	11	251	40	471	23	191	7	102	10	178
Mail and message distributing occupations	50	61	84	13	696	661	1 492	923	786	262	394	509	312	152
Production coordinators and expeditors	35	146	52	153	285	585	80	289	20	122	22	103	38	64
Traffic, shipping, and receiving clerks	337	256	30	—	1 301	450	156	69	61	38	45	13	50	18
Stock and inventory clerks	503	588	270	48	2 947	1 349	331	188	146	76	82	70	103	42
Other material recording, scheduling, and distributing clerks	15	160	8	66	267	300	53	89	41	9	12	54	—	26
Adjusters and investigators	8	153	6	56	177	434	1 908	4 102	494	1 748	1 337	2 181	77	173
Data-entry keyers	11	64	7	25	1	642	214	2 201	125	1 051	45	930	44	220
Other administrative support occupations	111	812	141	448	876	4 304	4 103	22 821	2 897	17 344	540	3 531	666	1 946
Service occupations	734	467	138 188	219 691	3 779	3 741	11 931	5 165	1 216	790	593	347	10 122	4 028
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	158	35	543	53	591	104	1 749	285	401	49	129	—	1 219	236
Guards	158	35	538	51	567	86	1 685	285	395	49	117	—	1 173	236
Other protective service occupations	—	—	5	2	24	18	64	—	6	—	12	—	46	—
Service occupations, except protective and household	576	432	137 645	219 638	3 188	3 637	10 182	4 880	815	741	464	347	8 903	3 792
Food preparation and service occupation	29	75	130 523	216 364	494	1 755	213	460	78	172	18	83	117	205
Health service occupations	—	—	87	43	127	619	13	121	—	28	13	43	—	50
Cleaning and building service occupations, except household	547	190	6 643	2 093	2 463	989	9 442	3 912	729	504	415	216	8 298	3 192
Personal service occupations	167	—	392	1 138	104	274	514	387	8	37	18	5	488	345
Farming, forestry, and fishing occupations	7	4	116	17	693	396	4 237	319	45	20	39	—	4 153	299
Precision production, craft, and repair occupations	851	2 061	1 220	450	17 918	3 014	4 657	301	178	27	121	48	4 358	226
Mechanics and repairers	70	—	200	14	5 544	292	848	15	30	5	37	4	781	6
Supervisors, mechanics and repairers	14	—	—	6	71	19	14	—	—	—	—	—	14	—
Automobile mechanics, including body	24	—	43	—	479	20	24	—	2	—	—	—	22	—
Industrial machinery repairers	5	—	60	1	217	8	221	—	—	—	6	—	215	—
Electronic repairers, communications and industrial equipment	—	—	—	—	1 008	30	5	—	—	—	—	—	5	—
Heating, air conditioning, and refrigeration mechanics	7	—	7	—	3 024	—	99	—	—	—	—	—	93	—
Other mechanics and repairers	20	—	19	7	3 245	215	485	11	22	5	31	—	432	6
Construction trades	94	4	446	37	8 547	303	3 577	202	123	—	63	16	3 391	186
Supervisors, construction occupations	4	—	21	—	149	—	195	15	19	—	—	—	176	15
Carpenters	77	4	325	33	1 878	53	1 174	20	35	—	56	—	1 083	20
Electricians	—	—	6	—	300	6	177	7	7	—	7	—	163	7
Painters, construction and maintenance	9	—	59	4	560	82	1 270	155	14	—	—	16	1 256	139
Plumbers, pipefitters, and steamfitters	—	—	—	—	171	7	455	5	41	—	—	—	414	—
Other construction trades	4	—	29	—	5 489	155	306	—	7	—	—	—	299	5

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Retail trade—Con.				Finance, insurance, and real estate							
	Apparel and accessory stores		Eating and drinking places		Other retail trade		Total		Banking and credit agencies		Insurance	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
United States												
Experienced unemployed 16 years and over—Con.												
Precision production, craft, and repair occupations—Con.												
Extractive occupations	—	—	—	—	—	—	—	—	—	—	—	—
Precision production occupations	687	2 057	574	399	3 805	2 419	232	84	25	22	21	28
Supervisors, production occupations	173	169	170	188	1 180	616	88	47	25	11	7	17
Precision metalworking occupations	3	7	18	9	547	331	25	547	—	—	8	—
Tool and die makers	—	—	—	—	—	—	—	—	—	—	—	—
Machinists	—	—	10	9	—	20	17	—	—	—	—	—
Sheet metal workers	3	—	—	—	55	—	8	—	—	—	8	—
Other precision metal workers	—	—	8	—	475	311	—	—	—	—	—	—
Precision textile, apparel, and furnishings machine workers	499	1 876	—	—	677	938	9	4	—	—	—	—
Precision food production occupations	6	3	374	202	82	29	7	7	—	—	—	—
Precision inspectors, testers, and related workers	—	—	—	—	4	5	6	14	—	—	6	7
Plant and system operators	—	2	12	—	44	2	104	—	—	—	—	—
Other precision production occupations	6	—	—	—	1 271	498	—	12	—	—	—	4
Operators, fabricators, and laborers	2 095	2 148	4 144	1 723	38 747	9 119	3 582	847	572	318	303	170
Machine operators, assemblers, and inspectors	271	1 032	293	410	3 307	3 215	652	492	182	239	129	127
Machine operators and tenders, except precision	246	873	233	266	2 783	1 873	358	403	136	179	114	110
Metalworking and plastic working machine operators	—	—	17	5	199	72	17	2	—	—	—	—
Machine tooling machine operators, i.e.,	—	2	—	—	19	—	—	—	—	—	—	—
Metal parts	—	—	—	—	—	—	—	—	—	—	—	—
Metal plastic processing and woodworking machine operators	—	—	8	6	432	52	17	2	11	—	—	—
Printing machine operators	17	53	6	12	74	119	168	85	41	20	47	26
Textile machine operators	5	12	12	9	73	59	7	20	—	—	—	—
Textile sewing machine operators	50	487	—	—	73	195	—	—	—	—	—	—
Laundry and dry cleaning machine operators	7	—	37	74	—	—	17	22	—	—	—	—
Packaging and filling machine operators	14	6	2	—	52	118	5	11	5	—	—	—
Furnace, kiln, and oven operators, except food	—	—	16	—	40	13	93	5	52	—	25	3
Other specified machine operators	144	121	21	31	770	358	105	97	18	17	11	30
Miscellaneous and not specified machine operators	9	172	114	129	1 108	880	129	157	9	91	31	49
Fabricators, assemblers, and hand working occupations	17	66	61	113	1 308	931	53	38	22	20	12	13
Welders and cutters	6	—	6	10	162	28	34	13	15	13	7	12
Solderers and brazers	—	—	—	—	2	—	—	—	—	—	—	—
Assemblers	—	18	49	51	951	830	5	25	7	7	5	13
Hand working occupations	11	48	6	52	193	73	14	—	—	—	—	—
Production inspectors, testers, samplers, and weighers	8	93	—	31	216	411	41	51	4	40	3	4
Graders and sorters, except agricultural	2	56	—	—	134	219	16	51	4	40	—	4
Other production inspectors, testers, samplers, and weighers	6	37	—	31	82	192	25	—	—	—	3	—
Transportation and material moving occupations	299	20	2 631	438	17 868	1 283	820	56	233	18	84	2
Transportation occupations	280	20	2 585	426	16 200	1 177	612	56	221	18	70	2
Motor vehicle operators	280	20	2 578	423	16 192	1 177	612	56	221	18	70	2
Truck drivers	282	5	2 094	340	14 641	603	369	20	147	9	38	2
Driver-sales workers	21	15	262	69	1 334	542	17	—	7	10	10	—
Other motor vehicle operators	37	—	222	14	217	32	226	36	67	9	22	—
Rail and water transportation occupations	—	—	—	—	8	—	—	—	—	—	—	—
Material moving occupations	19	—	46	12	1 668	106	208	—	12	—	14	—
Supervisors, material moving equipment operators	—	—	—	—	88	—	10	—	—	—	—	—
Crane, hoist and winch operators	—	—	—	—	39	2	5	—	—	—	—	—
Excavating, grading, and dozer machine operators	—	—	—	—	36	3	103	—	—	—	6	—
Other material moving equipment operators	19	—	46	12	1 505	101	90	—	12	—	8	—
Handlers, equipment cleaners, helpers, and laborers	1 525	1 096	1 219	875	16 592	4 621	2 110	299	177	61	90	41
Supervisors, handlers, equipment cleaners, and laborers, n e c	—	—	—	—	13	—	—	7	—	—	—	—
Helpers, craft and production	10	11	40	—	629	43	160	49	17	—	—	—
Construction laborers	6	—	27	10	361	19	237	16	—	—	4	—
Freight, stock, and material handlers	1 218	440	483	158	8 385	1 193	288	30	65	18	36	12
Garage and service station occupations, and equipment cleaners	58	—	45	6	223	57	46	—	11	—	—	—
Hand packers and packagers	52	460	163	390	694	1 798	20	20	—	—	2	5
Laborers, except construction	181	185	461	311	6 287	1 511	1 377	177	72	32	27	24
Experienced unemployed not classified by occupation	—	—	—	—	—	—	—	—	—	—	—	—

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Experienced unemployed 16 years and over

Managerial and professional specialty occupations	13 210	13 052	1 723	498	405	180	4 850	4 309	2 914	3 522	24 594	14 004	58 274	110 419	5 110	16 574
Executive, administrative, and managerial occupations	7 523	7 283	1 657	447	376	145	3 770	3 353	1 431	1 503	5 410	3 441	13 831	16 622	1 971	1 971
Officials and administrators, public administration																
Financial managers	351	98	33	7			45	33	6		60	25	228	194	70	51
Managers, marketing, advertising, and public relations	464	289	58	23	6	6	68	111	57	83	66	35	150	93		
Administrators, education and related fields	3	18						5	7				1 047	2 791	16	25
Managers, medicine and health													1 971	2 991	695	704
Other specified managers	235	312	27	33	2		128	115	364	95	101	69	1 047	2 991	695	704
Managers and administrators, n.e.c.	2 725	2 349	1 452	318	303	128	2 957	2 751	899	1 191	4 695	3 005	6 121	8 138	462	635
Salaries	2 403	2 177	1 238	298	243	110	2 625	2 535	658	1 079	4 342	2 877	5 953	7 974	462	635
Self-employed	322	172	214	20	60	18	332	216	241	112	353	128	168	164		
Management related occupations	3 745	4 217	87	66	65	11	572	338	98	127	488	307	3 816	3 670	317	462
Accountants and auditors	484	535	28	55	42	4	431	281	28	40	113	84	2 627	1 828	122	165
Personnel, training, and labor relations specialists	1 230	1 941	36	61	9		79	45	35	42	92	43	231	1 039	77	153
Buyers and purchasing agents	113	100	10	5	19		52	9	18	5	83	43	231	1 039	77	153
Inspectors and compliance officers	102	52	7		5	7	10	23	17	38	195	138	360	99	96	76
Other management related occupations	1 816	1 589	6										484	539	22	68
Professional specialty occupations	5 687	5 769	66	51	29	35	1 080	956	1 483	2 019	19 184	10 563	44 443	93 797	3 400	14 603
Engineers, architects, and surveyors	526	85	3	5	27		76	17	14	7	130	14	4 463	408	82	12
Architects	12															
Engineers	503	62	3	5	27		66	17	14	7	130	14	2 651	196	82	6
Civil engineers	30	15											671	52		
Electrical and electronic engineers	80	34			5		16				114	5	332	24	19	
Industrial engineers	111	34					11	17		7	8		125	22	18	
Mechanical engineers	77	4		5			17		8				395	4	12	
Other engineers	223	9	3		15		22					9	1 128	94	33	6
Surveyors and mapping scientists	11	23			7				6		8		1 037	54		
Computer systems analysts and scientists																
Operations and systems researchers and analysts	469	139					6						163	118	8	5
Mathematical scientists	50	31											104	44	5	7
Natural scientists	39	35	6				18	6	6		27	26	113	166	7	7
Chemists, except biochemists	248	155											810	599	95	144
Other natural scientists	103	71											147	106	12	13
Health diagnosing occupations	145	84					18	6	6		27	5	663	493	83	131
Health assessment and treating occupations													1 581	1 002	580	367
Registered nurses	31	127					9	34	22	409	50	3	2 399	19 917	1 877	12 680
Other health assessment and treating occupations	24	1 109					24	24	17	337	28	3	695	15 209	607	9 866
Teachers, except postsecondary	54	91					9	10	5	72	12		1 704	4 708	1 270	2 814
Social scientists and urban planners	270	274					367	306	218	708	1 293	1 455	12 624	44 428	47	171
Social and recreation workers	64	87		6		8	21	6			10	28	1 090	1 361	214	216
Lawyers and judges	22	15					274	385	18	49	448	529	4 396	8 508	235	659
Writers, artists, entertainers, and athletes												15	2 175	1 156	4	
Other professional specialty occupations	3 847	3 600	32	40	2	20	290	192	1 178	824	17 154	8 386	4 709	4 327	102	193
Technical, sales, and administrative support occupations	67	130	7			7	19	10	27	15	29	102	9 816	11 763	124	142
Technicians and related support occupations																
Health technicians and technicians	17 646	54 683	2 070	4 164	732	1 715	3 560	9 604	1 928	11 040	4 956	11 855	27 540	136 189	5 510	30 479
Licensed practical nurses	3 699	2 872	23	29	190	18	49	35	166	924	543	109	11 240	20 726	2 302	10 302
Other health technicians and technicians	96	845					7	7	26	856	14	21	3 153	16 211	2 346	9 985
Engineering and science technicians	60	790							26	856			373	7 647	242	4 771
Electrical and electronic technicians	1 932	957		7	99	12	30	22	29	28	204	29	2 780	8 364	1 894	5 214
Industrial and mechanical technicians	316	49			74	6	5	5	8		159	11	578	2 128	137	92
Drafting and surveying technicians	392	68											255	82	76	20
Other engineering and science technicians	747	403			18		18	17	13				4 114	881	15	7
Technicians, except health, engineering, and science	837	477		7		6			8	28	38	14	1 350	1 158	46	58
Airplane pilots and navigators													2 301	2 387	164	225
Air traffic controllers and broadcast equipment operators	21	127	7			6	12	26	111	40	325	59	47	7		
Computer programmers	102					6	3				12	23	54	14	13	
Other technicians, except health, engineering, and science	955	285									181	23	327	235	36	27
	593	658	16	22	91		9	19	111	40	127	5	873	2 131	115	191

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Business services		Automotive repair and services		Other repair services		Hotels and lodging places		Other personal services, including private household		Entertainment and recreation services		Professional and related services			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Total		Male	Female
Technical, sales, and administrative support occupations—Con.																
Sales occupations.....	3 755	5 458	1 433	1 213	244	125	2 033	581	1 120	5 021	3 006	6 866	1 746	4 462	75	750
Supervisors and proprietors, sales occupations.....	217	90	252	27	49	15	24	24	83	90	125	168	114	80	13	17
Salaried.....	201	84	235	14	45	9	24	55	65	84	100	156	114	80	13	17
Self-employed.....	16	6	17	13	4	6	6	6	18	6	25	12	—	—	—	—
Sales representatives, finance and business services.....	2 764	2 560	254	106	100	70	454	265	100	19	220	825	257	93	5	—
Sales representatives, commodities, except retail.....	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services.....	714	2 498	927	1 080	89	36	292	292	1 020	4 905	2 654	5 857	12	4 218	57	723
Cashiers.....	68	500	305	570	6	6	211	1 456	96	1 055	1 792	4 508	175	2 047	41	621
Other sales occupations, retail and personal services.....	646	1 998	622	510	83	30	81	68	924	3 850	862	1 349	1 116	2 171	16	102
Sales related occupations.....	46	310	—	—	—	4	—	—	12	7	7	16	72	71	—	10
Administrative support occupations, including clerical.....	10 192	46 353	614	2 922	298	1 572	7 516	2 930	642	5 095	1 407	4 880	14 554	111 001	2 998	19 427
Supervisors, administrative support occupations.....	533	850	31	34	49	12	64	88	36	97	98	179	662	1 537	131	419
Computer equipment operators.....	782	890	6	14	—	1	44	17	18	38	5	28	567	996	119	284
Secretaries, stenographers, and typists.....	433	15 318	6	915	3	533	18	903	28	953	69	1 360	873	44 042	155	5 997
Secretaries.....	147	10 615	6	838	3	458	18	786	21	804	69	1 106	468	35 120	33	4 385
Stenographers and typists.....	286	4 703	—	77	—	75	71	117	7	149	—	254	405	8 922	122	1 612
Receptionists.....	72	2 405	18	159	—	181	376	36	46	1 799	31	537	515	11 571	186	2 215
Other information clerks.....	557	2 591	—	75	7	56	71	360	11	131	93	156	485	1 439	66	1 54
File clerks.....	318	1 897	—	44	13	22	26	41	40	10	10	69	744	3 906	177	1 044
Other records processing occupations, except financial.....	265	890	52	28	41	4	4	—	—	125	53	81	1 402	6 920	165	1 303
Bookkeepers, accounting, and auditing clerks.....	388	2 729	83	828	14	400	700	288	23	492	55	862	1 012	7 150	113	734
Payroll and timekeeping clerks.....	45	322	—	19	10	—	35	78	—	18	49	18	51	493	13	131
Other financial records processing occupations.....	58	14	35	21	5	21	32	48	6	60	4	39	88	933	45	419
Telephone operators.....	161	1 787	13	13	—	15	88	744	18	48	11	160	119	1 696	32	885
Mail and message distributing occupations.....	2 049	1 423	33	22	4	4	21	43	121	56	109	929	1 247	929	240	285
Production coordinators and expeditors.....	219	345	36	34	6	6	18	27	—	55	162	168	170	353	58	107
Traffic, shipping, and receiving clerks.....	452	193	28	4	43	14	55	24	80	76	76	22	314	77	155	21
Stock and inventory clerks.....	990	797	77	63	24	39	107	24	87	76	41	30	122	931	629	580
Other material recording, scheduling, and distributing clerks.....	180	235	55	79	20	24	7	41	38	106	77	48	97	318	38	111
Adjusters and investigators.....	666	1 326	59	47	20	—	18	48	10	28	48	13	309	975	73	217
Data-entry keyers.....	287	3 319	5	16	—	—	—	34	6	61	6	27	142	1 413	7	322
Other administrative support occupations.....	1 737	8 516	111	493	41	203	484	418	73	839	410	1 001	4 635	25 322	591	4 199
Service occupations.....	39 267	17 521	819	157	340	87	23 713	47 532	9 455	54 542	20 991	16 437	62 947	158 392	18 539	41 781
Private household occupations.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations.....	18 592	3 602	84	31	20	—	819	234	3 028	34 565	2 197	1 118	3 839	966	1 111	95
Guards.....	18 150	3 575	75	31	20	—	798	232	121	62	2 160	1 103	3 756	946	1 085	95
Other protective service occupations.....	442	2 027	7	—	—	—	21	2	—	—	—	—	—	—	—	—
Service occupations, except protective and household.....	20 675	13 979	735	126	320	87	22 894	47 298	6 306	19 915	18 794	15 318	59 108	157 426	17 428	41 686
Food preparation and service occupation.....	259	439	11	6	—	30	11 294	14	—	—	5 034	7 908	8 635	27 376	2 877	4 981
Health service occupations.....	15	2 037	—	—	—	—	11	28	197	2 583	5 034	1 484	10 468	27 376	6 671	29 981
Cleaning and building service occupations, except household.....	19 783	10 210	706	97	292	48	7 599	28 997	2 421	14 608	5 608	1 576	35 468	90 200	7 637	6 575
Personal service occupations.....	468	1 223	18	23	11	8	3 284	6 726	3 652	14 608	8 118	5 746	4 596	28 062	293	513
Farming, forestry, and fishing occupations.....	443	63	14	6	105	11	1 110	144	2 398	133	5 877	691	3 588	826	578	75
Precision production, craft, and repair occupations.....	5 271	694	33 126	534	10 690	771	1 900	145	2 048	1 905	3 094	379	12 559	1 944	1 935	166
Mechanics and repairers.....	2 011	68	32 239	473	8 028	340	591	13	288	42	1 493	69	2 513	246	442	36
Supervisors, mechanics and repairers.....	52	3	309	3	77	5	37	3	2	—	85	—	85	8	—	—
Automobile mechanics, including body.....	242	5	391	435	391	3	37	—	73	—	168	—	483	51	22	—
Industrial machinery repairers.....	201	—	115	—	268	21	182	—	87	9	191	15	420	14	165	—
Electronic repairers, communications and industrial equipment.....	133	11	49	—	1 365	55	18	10	—	—	105	5	256	82	11	11
Heating, air conditioning, and refrigeration mechanics.....	48	48	—	—	1 135	40	21	—	—	—	6	—	165	6	35	6
Other mechanics and repairers.....	1 335	52	2 181	35	4 792	216	309	—	126	33	1 001	49	1 104	85	191	19
Construction trades.....	2 144	67	278	23	727	43	1 008	46	820	57	1 157	87	7 425	464	1 149	45
Supervisors, construction occupations.....	478	—	13	—	31	—	27	—	36	—	18	—	383	—	55	—
Carpenters.....	397	2	25	2	101	—	371	12	278	—	634	31	2 428	98	286	22
Electricians.....	397	9	25	—	235	—	139	—	25	—	128	—	966	19	230	—
Painters, construction and maintenance.....	297	29	187	21	54	14	335	19	320	53	235	41	1 766	234	374	23
Plumbers, pipefitters, and steamfitters.....	243	—	2	—	156	23	57	6	28	4	21	—	850	17	128	—
Other construction trades.....	694	27	26	—	150	—	79	—	133	—	121	—	1 032	96	76	—

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Business services		Automotive repair and services		Other repair services		Hotels and lodging places		Other personal services, including private household		Entertainment and recreation services		Professional and related services	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Extraction occupations	34	559	609	38	1 935	388	301	86	940	1 806	444	223	25	5
Precision production occupations	1 082	259	171	6	584	12	38	42	181	4	71	92	2 596	1 218
Supervisors, production occupations	461	21	79	6	584	12	38	42	181	4	71	92	477	177
Precision metalworking occupations	324	21	79	6	584	12	38	42	181	4	71	92	397	148
Tool and die makers	16	—	6	—	34	7	7	—	24	—	—	—	35	59
Machinists	190	—	52	—	161	7	7	—	7	4	68	—	161	26
Sheet metal workers	36	—	31	—	31	—	—	—	12	—	—	—	138	—
Other precision metal workers	21	—	8	—	31	—	—	—	12	—	—	—	138	—
Precision textile, apparel, and furnishings machine workers	82	21	13	—	358	5	9	—	5	—	3	—	163	33
Precision food production occupations	28	110	243	25	691	221	14	6	699	1 595	33	76	87	128
Precision inspectors, testers, and related workers	5	—	11	—	30	—	39	—	20	—	40	42	87	124
Plant and system operators	58	33	82	—	20	—	194	6	22	—	34	—	51	6
Other precision production occupations	103	7	28	—	544	146	—	2	5	6	118	11	1 092	725
Operators, fabricators, and laborers	16 282	8 980	17 757	1 946	8 339	665	2 314	1 728	9 532	11 789	4 738	956	16 483	10 218
Machine operators, assemblers, and inspectors	584	5 480	3 701	301	5 872	569	431	1 285	5 027	10 397	1 280	429	4 268	4 693
Metalworking and plastic working machine operators	2 942	4 151	2 968	186	302	253	565	1 245	4 913	9 830	1 145	358	2 890	3 862
Fabricating machine operators, n.e.c.	154	79	128	7	302	50	2	—	31	—	28	—	181	63
Metal and plastic processing and woodworking machine operators	11	—	5	—	8	21	—	—	—	—	—	—	18	—
Printing machine operators	102	64	19	—	40	—	15	19	18	68	—	—	40	21
Textile machine operators	204	343	2	—	—	—	—	4	8	50	20	13	358	160
Textile sewing machine operators	13	8	27	—	27	17	—	—	30	15	—	—	10	20
Laundry and dry cleaning machine operators	94	18	4	9	22	60	4	10	17	579	6	21	24	144
Packaging and filling machine operators	99	19	—	—	—	8	288	1	3 690	4 566	7	53	719	2 436
Furnace, kiln, and oven operators, except food	14	147	14	—	—	—	—	—	7	—	—	—	19	13
Other specified machine operators	1 252	2 282	12	5	36	8	31	—	—	—	7	—	353	12
Miscellaneous and not specified machine operators	1 049	1 191	321	33	300	75	157	29	991	4 309	831	158	404	447
Fabricators, assemblers, and hand working occupations	1 235	1 059	700	107	4 936	297	42	—	155	155	122	53	1 124	640
Welders and cutters	276	27	411	25	4 770	235	13	—	33	32	20	—	691	32
Solders and brazers	—	17	6	—	9	—	9	—	—	—	—	—	—	7
Assemblers	557	902	257	11	143	52	14	—	54	147	81	40	396	536
Hand working occupations	402	113	26	71	14	10	6	—	4	8	21	13	37	65
Production inspectors, testers, samplers, and weighers	407	470	33	8	20	19	24	40	23	412	13	18	254	181
Graders and sorters, except agricultural	91	215	—	2	7	7	6	—	—	29	13	—	68	131
Other production inspectors, testers, samplers, and weighers	316	255	33	6	13	12	18	40	23	383	—	18	186	50
Transportation and material moving occupations	3 769	595	4 444	464	754	10	658	127	2 022	139	1 206	203	5 440	3 960
Transportation occupations	2 984	539	4 332	457	643	10	533	107	1 960	134	1 036	188	4 822	3 915
Motor vehicle operators	2 956	521	4 326	457	638	10	533	107	1 948	134	1 009	182	4 700	3 902
Truck drivers	2 497	402	2 231	135	589	10	189	8	1 199	73	375	91	1 942	3 375
Driver-sales workers	77	26	19	—	25	—	19	—	47	—	23	7	106	13
Other motor vehicle operators	382	91	2 076	322	24	—	313	84	292	14	611	84	2 652	3 369
Rail and water transportation occupations	28	20	6	—	5	—	12	—	12	—	27	15	122	13
Material moving equipment operators	785	56	112	7	111	—	125	20	62	5	170	45	618	45
Supervisors, material moving equipment operators	7	8	—	—	—	—	—	—	—	—	10	—	6	—
Crane, hoist and winch operators	155	—	13	—	14	—	6	—	—	—	5	—	101	—
Excavating, grading, and dozer machine operators	57	1	—	—	23	—	14	—	13	—	47	6	96	—
Other material moving equipment operators	566	48	98	7	74	—	111	14	49	5	108	9	415	39
Handlers, equipment cleaners, helpers, and laborers	7 929	2 705	9 612	1 181	1 713	86	1 025	316	2 483	1 253	2 252	324	6 975	1 575
Supervisors; handlers, equipment cleaners, and laborers, n.e.c.	13	8	—	—	16	—	—	—	—	—	20	5	13	—
Helpers, craft and production	221	9	1 424	125	449	—	43	81	94	80	51	5	1 237	186
Construction laborers	312	21	13	11	50	5	98	2	76	—	84	—	959	31
Freight, stock, and material handlers	1 178	151	126	8	23	7	87	2	194	84	756	60	800	92
Garage and service station occupations, and equipment cleaners	254	64	7 130	889	302	—	44	10	96	45	23	16	146	73
Hand packers and packagers	542	1 559	2	17	21	—	26	—	62	312	36	24	274	259
Laborers, except construction	5 409	893	917	131	852	41	727	223	1 961	732	1 282	214	3 546	934
Experienced unemployed not classified by occupation	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Experienced unemployed not classified by occupation

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample—see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Professional and related services—Con										Public administration	
	Health services, except hospitals				Educational services				Social services, religious and membership organizations		Other professional and related services	
	Male	Female	Male	Female	Government	Private	Male	Female	Male	Female	Male	Female
Experienced unemployed 16 years and over	16 459	99 618	48 935	99 965	21 119	35 141	35 800	63 446	25 431	28 813	110 470	102 578
Managerial and professional specialty occupations	3 372	11 505	16 471	40 921	8 276	14 765	12 302	20 041	12 743	6 613	20 824	18 154
Executive, administrative, and managerial occupations	1 144	2 744	1 960	2 634	1 585	1 872	4 308	4 963	3 134	2 438	12 337	9 760
Officials and administrators, public administration	—	—	—	—	8	5	—	—	2	—	4 273	2 667
Financial managers	33	33	21	—	45	22	24	19	35	69	85	31
Managers, marketing, advertising, and public relations	10	16	—	16	24	8	38	33	20	20	36	2
Administrators, education and related fields	16	21	1 075	1 150	737	899	127	680	—	16	46	31
Managers, medicine and health	352	632	—	—	—	—	—	—	—	—	7	14
Other specified managers	17	57	94	23	78	59	123	121	26	41	327	186
Managers and administrators, n.e.c.	520	1 692	501	862	503	626	3 268	3 388	867	935	1 775	1 551
Salaries	493	1 644	501	862	488	614	3 226	3 330	783	889	1 775	1 551
Self-employed	27	48	—	—	15	12	42	58	84	46	—	—
Management related occupations	196	283	269	583	190	253	718	722	2 126	1 357	5 788	5 278
Accountants and auditing labor relations specialists	50	119	70	168	95	79	203	202	1 524	1 092	1 046	1 552
Personnel and purchasing agents	14	119	103	248	38	89	302	351	574	77	1 342	1 532
Inspectors and compliance officers	27	46	46	30	36	12	27	17	26	19	254	1 468
Other management related occupations	90	53	29	84	21	73	186	139	211	147	2 559	1 653
Professional specialty occupations	2 228	8 761	14 511	38 287	6 691	12 893	8 004	15 078	9 609	4 175	8 487	8 394
Engineers, architects, and surveyors	28	24	87	21	70	7	83	24	4 113	320	1 185	192
Architects	8	—	20	—	—	—	16	—	2	13	93	13
Engineers	20	24	65	21	66	7	60	13	2 358	125	966	112
Civil engineers	—	—	—	9	6	—	3	—	2 358	125	966	112
Electrical and electronic engineers	—	—	13	—	19	—	6	—	662	3	335	19
Industrial engineers	—	—	10	6	—	—	2	6	275	24	108	7
Mechanical engineers	12	—	17	—	5	—	26	—	95	10	111	21
Other engineers	8	—	25	6	36	—	23	7	1 003	68	332	44
Surveyors and mapping scientists	—	—	2	—	4	—	7	9	1 024	45	126	67
Computer systems analysts and scientists	5	—	18	50	35	2	7	29	90	32	175	39
Operations and systems researchers and analysts	15	—	4	13	17	19	10	5	53	—	90	99
Mathematical scientists	13	6	24	40	68	28	33	43	52	42	120	106
Natural scientists	89	161	171	35	22	8	52	31	334	116	571	334
Chemists, except biochemists	23	17	36	31	22	8	6	—	48	37	91	25
Other natural scientists	66	144	135	64	46	4	47	31	286	79	122	546
Health diagnosing occupations	932	589	57	488	28	15	12	12	15	—	123	46
Health assessment and treating occupations	365	5 785	57	688	29	282	88	425	3	47	127	583
Registered nurses	83	4 543	12	311	10	101	3	239	174	7	31	296
Other health assessment and treating occupations	302	1 252	45	311	19	105	65	186	3	40	96	287
Teachers, except postsecondary	46	208	8 449	29 318	3 463	8 449	595	6 177	24	76	564	716
Social scientists and urban planners	261	1 485	144	266	82	84	118	153	271	207	520	375
Social and recreation workers	271	1 182	162	524	94	99	3 554	5 965	60	79	1 887	3 549
Lawyers and judges	13	3	—	11	6	—	69	32	2 083	79	686	471
Writers, artists, entertainers, and athletes	43	147	784	658	523	473	967	1 006	2 290	1 850	1 283	1 133
Other professional specialty occupations	147	211	4 597	6 584	2 276	3 354	2 451	1 176	221	296	514	514
Technical, sales, and administrative support occupations	1 792	24 219	5 791	30 865	3 039	12 426	3 353	17 512	8 055	20 688	20 763	61 963
Technicians and related support occupations	859	5 949	1 455	883	876	437	276	437	5 350	1 756	4 048	3 335
Health technicians and technicians	722	5 802	137	196	102	82	48	123	13	23	190	266
Licensed practical nurses	113	2 912	65	45	9	28	9	54	—	—	118	178
Other health technicians and technicians	609	2 890	137	131	93	54	34	21	4 546	958	1 516	1 180
Engineering and science technicians	50	91	617	545	320	341	116	101	4 546	958	336	46
Electrical and electronic technicians	6	9	43	11	23	19	12	7	95	16	38	30
Industrial and mechanical engineering technicians	—	—	—	—	25	—	—	—	36	—	28	—
Drafting and surveying technicians	—	—	45	45	22	—	60	64	3 943	738	660	216
Other engineering and science technicians	39	77	523	489	226	300	44	30	472	204	492	479
Technicians, except health, engineering, and science	87	76	701	646	461	452	117	213	771	775	2 342	2 295
Airplane pilots and navigators	—	—	5	—	21	—	8	—	13	—	41	—
Air traffic controllers and broadcast equipment operators	—	—	20	2	14	5	7	—	—	—	1 274	1 449
Computer programmers	6	—	113	93	104	113	70	27	59	18	202	142
Other technicians, except health, engineering, and science	81	69	563	551	322	377	93	186	699	757	825	704

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Professional and related services—Con.										Public administration			
	Professional and related services—Con.													
	Health services, except hospitals				Educational services			Social services, religious and membership organizations					Other professional and related services	
	Government		Private		Government		Private		Government		Private		Male	Female
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Technical, sales, and administrative support occupations—Con.														
Sales occupations.....	96	145	177	954	288	556	773	1 416	337	641	453	1 332		
Supervisors and proprietors, sales occupations.....	6	7	23	9	22	2	44	21	6	24	18	39		
Salaries.....	6	7	23	9	22	2	44	21	6	24	18	39		
Self-employed.....	—	—	—	—	—	—	—	—	—	—	—	—		
Sales representatives, finance and business services.....	—	—	—	—	—	—	—	—	—	—	—	—		
Sales representatives, commodities, except retail.....	—	—	—	—	—	—	—	—	—	—	—	—		
Sales workers, retail and personal services.....	90	131	131	945	266	547	656	1 318	91	554	330	1 243		
Cashiers.....	7	62	72	752	31	299	—	228	24	85	115	860		
Other sales occupations, retail and personal services.....	83	69	59	193	235	248	656	1 090	67	469	215	363		
Sales related occupations.....	—	—	—	—	—	—	—	61	7	—	6	7		
Administrative support occupations, including clerical.....	837	18 105	4 159	28 524	1 868	10 995	2 304	15 659	2 388	18 291	16 242	57 296		
Supervisors, administrative support occupations.....	6	344	81	152	38	101	143	347	263	174	2 249	1 667		
Computer equipment operators.....	21	82	219	241	112	124	36	739	60	198	329	739		
Secretaries, stenographers, and typists.....	45	6 175	246	9 934	91	4 750	197	6 973	139	5 311	364	20 092		
Stenographers and typists.....	16	5 322	132	7 227	52	3 710	128	5 311	107	10 213	228	10 421		
Receptionists.....	29	853	114	2 707	39	1 040	69	1 048	32	9 471	538	9 471		
Other information clerks.....	53	756	117	758	72	532	67	964	20	1 346	336	2 101		
File clerks.....	24	149	159	238	64	440	92	440	80	307	3 114	6 213		
Other records processing occupations, except financial.....	75	719	158	864	70	211	111	582	153	486	775	3 365		
Bookkeepers, accounting, and auditing clerks.....	25	463	812	3 944	340	932	30	1 559	30	119	387	1 041		
Payroll and timekeeping clerks.....	122	1 345	117	722	94	412	166	1 041	400	2 610	423	1 812		
Other financial records processing occupations.....	22	58	6	119	—	—	—	76	5	78	136	454		
Telephone operators.....	11	205	7	41	—	—	18	85	7	166	58	187		
Mail and message distributing occupations.....	10	170	32	192	6	154	32	203	7	92	77	467		
Production coordinators and expeditors.....	140	126	187	140	110	109	185	126	385	143	852	698		
Traffic, shipping, and receiving clerks.....	7	32	33	79	6	26	33	48	33	61	415	415		
Stock and inventory clerks.....	—	5	42	18	6	6	12	117	11	15	211	507		
Other material recording, scheduling, and distributing clerks.....	40	45	208	190	153	57	63	36	29	23	930	507		
Adjusters and investigators.....	3	88	17	50	7	16	26	47	6	6	244	1 095		
Data-entry keyers.....	5	117	42	80	22	67	72	246	95	248	680	1 095		
Other administrative support occupations.....	24	87	34	280	27	197	31	367	19	367	175	1 686		
Service occupations.....	204	2 139	1 642	10 482	638	3 102	914	3 761	646	1 639	4 369	14 396		
Private household occupations.....	8 607	61 183	18 907	24 277	6 327	6 958	9 575	23 393	992	800	30 024	15 790		
Protective service occupations.....	142	43	1 281	442	573	130	478	219	254	37	14 213	4 033		
Guards.....	135	28	1 262	457	567	130	461	219	246	37	3 305	1 866		
Other protective service occupations.....	7	15	19	6	6	6	17	6	8	8	10 908	2 167		
Service occupations, except protective and household.....	8 465	61 140	17 626	23 835	5 754	6 828	9 097	23 174	738	763	15 811	11 757		
Food preparation and service occupations.....	1 497	5 379	1 978	9 608	1 094	3 068	1 743	3 068	66	133	2 458	2 458		
Health service occupations.....	3 324	49 879	1 578	9 464	1 480	251	323	504	13	73	469	1 538		
Cleaning and building service occupations, except household.....	3 220	3 915	14 768	5 691	4 181	1 614	5 028	2 180	574	225	12 125	4 177		
Personal service occupations.....	274	1 967	1 522	8 071	419	1 895	2 003	15 286	85	330	1 954	3 584		
Farming, forestry, and fishing occupations.....	252	18	1 340	225	503	88	692	297	223	123	9 617	1 736		
Precision production, craft, and repair occupations.....	1 560	796	2 598	526	1 348	113	4 159	266	959	77	11 035	1 136		
Mechanics and repairers.....	219	10	907	155	325	8	433	24	187	13	4 187	296		
Supervisors, mechanics and repairers.....	—	—	40	8	14	—	8	—	5	—	9	—		
Automobile mechanics, including body.....	50	5	256	27	82	8	68	—	5	11	1 078	19		
Industrial machinery repairers.....	54	—	104	12	34	—	29	2	34	—	290	15		
Electronic repairers, communications and industrial equipment.....	4	—	74	59	54	—	42	10	71	2	302	16		
Heating, air conditioning, and refrigeration mechanics.....	22	—	50	—	23	—	30	—	5	—	128	—		
Other mechanics and repairers.....	89	5	383	49	118	—	256	12	67	—	2 180	237		
Construction trades.....	291	17	1 467	212	803	43	3 256	132	459	15	5 502	444		
Supervisors, construction occupations.....	38	—	419	—	251	8	95	41	88	9	312	11		
Carpenters.....	83	—	165	17	131	—	210	373	179	9	1 931	102		
Electricians.....	8	—	575	119	217	—	446	45	59	2	481	42		
Painters, construction and maintenance.....	129	11	120	17	63	31	476	45	25	5	1 489	213		
Plumbers, pipefitters, and steamfitters.....	15	6	127	41	95	4	656	44	45	1	332	76		
Other construction trades.....	—	—	—	—	—	—	—	—	—	—	—	—		

Table 3. Last Industry of the Experienced Unemployed by Occupation and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Professional and related services—Con												Public administration				
	Health services, except hospitals				Educational services				Social services, religious and membership organizations		Other professional and related services						
	Male		Female		Government		Private		Male		Female			Male		Female	
					Male	Female	Male	Female									
Experienced unemployed 16 years and over—Con																	
Precision production, craft, and repair occupations—Con																	
Extrusion occupations																	
Precision production occupations																	
Supervisors, production occupations																	
Precision metalworking occupations																	
Tool and die makers																	
Machinists																	
Sheet metal workers																	
Other precision metal workers																	
Precision textile, apparel, and furnishings machine workers																	
Precision food production occupations																	
Precision inspectors, testers, and related workers																	
Plant and system operators																	
Other precision production occupations																	
Operators, fabricators, and laborers																	
Machine operators, assemblers, and inspectors																	
Machine operators and tenders, except precision																	
Metalworking and plastic working machine operators																	
Fabricating machine operators, n.e.c.																	
Metal and plastic processing and woodworking machine operators																	
Printing machine operators																	
Textile machine operators																	
Textile sewing machine operators																	
Laundering and dry cleaning machine operators																	
Packaging and filling machine operators																	
Furnace, kiln, and oven operators, except food																	
Other specified machine operators																	
Miscellaneous and not specified machine operators																	
Fabricators, assemblers, and hand working occupations																	
Welders and cutters																	
Soldiers and brazers																	
Assemblers																	
Hand working occupations																	
Production inspectors, testers, samplers, and weighers																	
Graders and sorters, except agricultural																	
Other production inspectors, testers, samplers, and weighers																	
Transportation and material moving occupations																	
Transportation occupations																	
Motor vehicle operators																	
Truck drivers																	
Driver-sales workers																	
Other motor vehicle operators																	
Rail and water transportation occupations																	
Material moving equipment operators																	
Supervisors, material moving equipment operators																	
Crane, hoist and winch operators																	
Excavating, grading, and dozer machine operators																	
Other material moving equipment operators																	
Handlers, equipment cleaners, helpers, and laborers																	
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.																	
Helpers, craft and production																	
Construction laborers																	
Freight, stock, and material handlers																	
Garage and service station occupations, and equipment cleaners																	
Hand packers and packagers																	
Laborers, except construction																	
Experienced unemployed not classified by occupation																	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Agriculture, forestry, and fisheries									
	Total, all industries		Total		Agricultural production, crops		Agricultural production, livestock		Agricultural services, except horticultural	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	97 639 355	41 634 665	2 913 589	522 050	1 418 642	213 384	893 316	158 962	218 097	96 540
Managerial and professional specialty occupations	22 151 648	8 954 843	144 439	27 977	18 430	5 156	8 319	2 026	52 158	11 595
Executive, administrative, and managerial occupations	10 133 551	3 070 247	53 814	12 343	13 366	3 085	5 757	1 372	10 342	3 649
Legislators, chief executives, and general administrators	45 165	11 480	—	—	—	—	—	—	—	—
Public administrators	290 500	97 292	—	—	—	—	—	—	—	—
Administrators and officials, public administration	104 908	30 367	—	—	—	—	—	—	—	—
State	73 378	20 324	—	—	—	—	—	—	—	—
Local	112 214	46 601	—	—	—	—	—	—	—	—
Administrators, protective services	25 884	2 387	5	—	—	—	—	—	—	—
Financial managers	403 507	126 075	775	180	346	58	103	39	128	11
Personnel and labor relations managers	214 749	76 888	1 662	413	493	75	346	52	282	97
Purchasing managers	69 982	14 801	387	96	57	—	—	—	—	—
Managers, marketing, advertising, and public relations	674 364	117 323	2 909	456	1 144	243	321	48	49	12
Administrators, education and related fields	382 589	144 904	111	5	36	—	6	—	19	—
Managers, medicine and health	108 477	54 948	—	—	—	—	—	—	—	—
Managers, properties and real estate	193 863	79 010	173	33	41	17	16	7	—	—
Postmasters and mail superintendents	31 150	13 522	—	—	—	—	—	—	—	—
Funeral directors	39 811	3 433	9	—	—	—	—	—	—	—
Managers and administrators, n.e.c.	5 097 215	1 357 405	38 484	8 241	8 853	1 997	3 734	862	7 577	2 952
Soldiers	4 535 735	1 206 250	29 329	6 069	6 947	1 542	3 486	672	5 581	1 885
Self-employed	361 480	131 135	9 155	2 172	1 906	435	586	190	2 036	1 067
Management related occupations	2 556 295	970 779	9 299	2 919	2 396	690	1 208	364	1 767	537
Accountants and auditors	993 327	376 372	3 394	1 528	1 108	435	551	259	683	277
Underwriters	18 220	10 576	—	—	—	—	—	—	—	—
Other financial officers	398 662	178 356	306	59	91	10	21	4	49	2
Management analysts	115 585	29 042	294	52	43	—	—	—	31	6
Personnel, training, and labor relations specialists	410 366	192 170	2 528	612	616	114	171	33	395	136
Purchasing agents and buyers, farm products	18 981	1 480	43	2	—	—	—	—	43	2
Buyers, wholesale and retail trade except farm products	163 019	72 074	—	—	—	—	—	—	—	—
Purchasing agents and buyers, n.e.c.	187 126	59 456	1 756	456	427	91	322	39	266	33
Business and promotion agents	19 668	6 462	152	33	35	7	9	2	95	24
Construction inspectors	48 543	2 230	115	4	6	—	—	—	—	—
Inspectors and compliance officers, except construction	152 333	26 306	649	152	70	18	134	27	99	49
Management related occupations, n.e.c.	30 465	16 255	62	21	—	—	—	—	21	10
Professional specialty occupations	12 018 097	5 884 596	90 825	15 634	5 064	2 071	2 562	654	41 816	7 946
Engineers, architects, and surveyors	1 516 917	72 862	21 560	1 891	469	51	144	16	390	21
Architects	105 079	8 617	17 010	1 603	151	39	25	16	140	16
Engineers	1 382 095	63 158	3 907	242	293	12	112	—	228	20
Aerospace engineers	87 811	2 843	5	—	—	—	—	—	—	—
Metallurgical and materials engineers	24 187	1 241	29	19	—	—	—	—	19	13
Mining engineers	9 786	329	27	—	—	—	—	—	6	—
Petroleum engineers	22 808	796	14	—	—	—	—	—	7	—
Chemical engineers	56 916	2 870	35	—	—	—	—	—	—	—
Nuclear engineers	9 186	343	3	—	—	—	—	—	—	—
Civil engineers	200 471	5 798	2 369	147	39	—	15	—	40	—
Agricultural engineers	4 481	384	—	—	—	—	—	—	—	—
Electrical and electronic engineers	319 754	15 956	90	2	75	—	2	2	22	13
Industrial engineers	190 952	18 118	179	32	39	12	22	7	72	7
Mechanical engineers	194 694	3 073	173	—	39	—	26	—	23	10
Marine engineers and naval architects	15 857	301	230	—	—	—	—	—	—	—
Engineers, n.e.c.	244 892	9 606	602	35	58	—	23	7	32	—
Surveyors and mapping scientists	29 743	1 087	643	46	25	—	7	—	22	—
Mathematical and computer scientists	326 495	84 738	594	150	48	—	49	7	152	51
Computer systems analysts and scientists	200 684	44 840	310	64	36	—	26	1	58	17
Operations and systems researchers and analysts	79 920	22 076	64	12	5	—	13	—	17	12
Statisticians	10 190	2 596	36	—	—	—	—	—	36	—
Mathematical scientists, n.e.c.	29 391	14 007	154	67	9	—	10	6	25	22
Mathematical scientists	6 310	1 199	30	7	—	—	—	—	16	—
Horticultural services	230 158	35 596	230 158	35 596	230 158	35 596	230 158	35 596	230 158	35 596
Forestry	87 430	21 070	87 430	21 070	87 430	21 070	87 430	21 070	87 430	21 070

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Total, all industries		Total				Agriculture, forestry, and fisheries				Agricultural services, except horticultural				Horticultural services				Forestry			
	Total		Total		Male		Total		Male		Total		Male		Total		Male		Total		Male	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States																						
Employed persons 16 years and over—Con																						
Managerial and professional specialty occupations—Con																						
Professional specialty occupations—Con																						
Natural scientists	307 295	60 361	20 969	2 932	1 836	392	463	83	1 477	497	2 594	698	12 292	1 066								
Physicists and astronomers	22 310	1 207	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chemists, except biochemists	100 458	19 945	271	72	66	22	13	7	86	24	30	—	70	19								
Atmospheric and space scientists	8 248	1 389	28	10	8	—	—	—	—	—	7	—	13	10								
Geologists and geodesists	45 319	5 002	502	73	10	—	23	—	15	—	—	—	434	73								
Physical scientists, n.e.c.	8 507	1 701	102	5	—	—	—	—	—	—	15	—	78	5								
Agricultural and food scientists	23 762	5 323	6 117	1 521	1 481	318	277	46	1 178	390	2 419	680	557	64								
Biological and life scientists	45 066	14 765	2 273	334	143	37	32	14	94	36	30	18	139	13								
Forestry and conservation scientists	33 880	3 079	11 533	867	112	12	56	16	27	5	93	—	10 308	756								
Medical scientists	19 745	7 950	7 129	50	16	8	7	—	68	42	—	—	29	—								
Health diagnosing occupations	643 716	75 115	29 120	3 688	109	42	316	37	28 508	3 561	152	32	24	9								
Physicians	431 418	57 310	131	44	—	—	4	—	116	44	7	—	2	—								
Dentists	124 772	8 140	132	40	2	—	2	—	123	31	—	—	7	—								
Veterinarians	34 067	4 472	28 786	3 595	105	40	304	37	28 214	3 479	139	32	13	7								
Optometrists	24 443	1 956	41	9	—	—	—	—	39	7	—	—	2	—								
Podiatrists	7 723	636	9	—	—	—	—	—	—	—	—	—	—	—								
Health diagnosing practitioners, n.e.c.	21 293	2 601	21	—	—	—	2	—	9	—	6	—	—	—								
Health assessment and treating occupations	1 695 436	1 458 652	782	502	41	24	72	42	538	359	29	18	86	52								
Registered nurses	1 266 801	1 214 868	461	389	24	24	33	33	323	278	11	11	56	36								
Pharmacists	143 490	34 249	89	36	8	—	—	—	64	25	6	—	11	—								
Dietitians	65 221	38 656	116	33	2	—	37	7	53	21	5	—	19	5								
Therapists	190 234	139 051	57	22	—	—	—	2	53	20	—	—	—	—								
Physicians assistants	29 690	11 828	39	22	—	—	—	—	45	15	7	—	—	—								
Teachers, postsecondary	625 794	227 044	170	3	42	—	6	—	17	3	56	—	—	—								
Teachers, except postsecondary	3 658 074	2 586 974	994	475	217	53	252	149	431	247	26	—	52	10								
Teachers, prekindergarten and kindergarten	176 869	170 651	—	—	—	—	—	—	—	—	—	—	—	—								
Teachers, elementary and secondary school	3 134 907	2 201 211	—	—	—	—	—	—	—	—	—	—	—	—								
Teachers, special education	31 925	22 055	6	—	6	—	—	—	—	—	—	—	—	—								
Teachers, n.e.c.	314 373	193 057	988	475	211	53	252	149	431	247	26	—	52	10								
Counselors, educational and vocational	193 456	105 010	76	28	19	—	—	—	15	7	—	—	35	9								
Librarians, archivists, and curators	198 308	158 825	114	85	9	—	4	2	14	6	20	20	40	33								
Librarians	183 439	151 439	78	71	—	—	2	2	—	—	14	6	40	33								
Archivists and curators	14 869	7 386	36	14	9	—	2	—	—	—	6	—	—	—								
Social scientists and urban planners	212 497	79 066	515	100	108	3	19	—	82	21	20	13	270	61								
Economists	93 458	27 426	330	36	94	3	19	—	68	21	13	6	122	6								
Psychologists	90 905	42 614	—	—	—	—	—	—	—	—	—	—	—	—								
Sociologists	2 467	990	11	—	—	—	—	—	8	—	2	—	5	—								
Social scientists, n.e.c.	12 644	4 928	161	57	14	—	—	—	—	—	—	—	—	—								
Urban planners	13 023	3 108	13	7	—	—	—	—	—	—	—	—	—	—								
Social, recreation, and religious workers	806 567	354 802	343	122	85	33	41	4	36	24	5	—	37	—								
Social workers	442 970	287 577	126	73	27	27	1	—	30	24	6	—	149	13								
Recreation workers	33 802	23 083	110	26	4	—	—	—	6	—	—	—	82	17								
Clergy	280 965	16 170	94	10	48	6	33	3	—	—	6	—	—	—								
Religious workers, n.e.c.	48 830	27 972	13	13	6	—	—	—	—	—	—	—	—	—								
Lower and judges	524 806	72 312	165	33	39	6	29	—	45	6	—	—	21	21								
Lawyers	497 230	67 659	165	33	39	6	29	—	45	6	—	—	21	21								
Judges	27 576	4 673	—	—	—	—	—	—	—	—	—	—	—	—								
Writers, artists, entertainers, and athletes	1 308 736	548 635	15 423	5 625	2 042	1 462	1 167	314	10 111	3 144	1 488	474	447	161								
Authors	44 032	19 324	24	10	2	—	—	—	14	—	16	6	2	—								
Technical writers	48 065	17 974	6	55	—	—	—	—	61	38	11	11	49	32								
Designers	352 276	160 648	3 205	1 608	1 787	1 361	46	13	29	6	1 231	384	80	12								
Musicians and composers	128 897	38 576	30	12	—	—	—	—	2	—	—	—	—	—								
Actors and directors	38 690	18 576	21	9	—	—	—	—	—	—	—	—	—	—								
Painters, sculptors, craft artists, and artist printmakers	146 144	70 042	306	131	40	25	7	—	56	33	129	37	69	24								
Photographers	90 373	20 769	53	—	—	—	—	—	9	—	—	—	—	—								
Dancers	11 552	8 683	—	—	—	—	—	—	—	—	—	—	—	—								
Artists, performers, and related workers, n.e.c.	45 821	18 499	2 947	1 069	58	7	645	198	2 214	842	24	16	—	—								
Editors and reporters	202 846	99 352	183	115	47	—	—	—	52	37	12	7	36	29								
Public relations specialists	115 093	55 838	527	162	55	27	53	11	161	28	24	12	159	62								
Announcers	44 626	8 080	14	6	—	—	—	—	6	—	—	—	—	—								
Athletes	49 409	11 879	7 997	2 248	47	22	395	79	7 489	2 146	39	1	17	—								

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States									
	Total, all industries				Agriculture, forestry, and fisheries					
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations	29 593 506	18 971 458	130 666	94 108	35 433	26 181	17 821	13 488	40 990	31 443
Technical and related support occupations	2 981 951	1 302 882	22 926	9 021	2 295	930	1 394	382	11 281	5 946
Health technologists and technicians	966 469	808 352	5 118	4 411	71	58	82	54	4 927	4 277
Clinical laboratory technologists and technicians	238 362	177 669	222	176	5	—	14	7	172	154
Dental hygienists	45 446	44 787	—	—	—	—	—	—	—	—
Health record technicians	14 803	13 513	11	11	—	—	—	—	11	11
Radiologic technicians and technicians	94 345	67 569	31	24	—	—	—	—	31	24
Licensed practical nurses	424 960	410 679	83	67	29	29	68	47	54	38
Health technologists and technicians, n.e.c.	148 553	94 135	4 771	4 133	37	29	66	47	4 659	4 050
Engineering and related technologists and technicians	918 639	151 088	5 496	1 433	501	227	122	37	502	297
Electrical and electronic technicians	260 959	29 687	340	128	23	11	12	—	9	—
Industrial engineering technicians	10 295	2 122	55	31	3	15	2	—	16	16
Mechanical engineering technicians	15 130	944	4	—	—	—	—	—	—	—
Engineering technicians, n.e.c.	263 987	62 161	1 436	560	252	147	89	37	348	240
Drafting occupations	319 426	32 248	2 914	572	91	28	14	—	99	22
Surveying and mapping technicians	48 842	3 926	747	142	104	26	5	—	30	19
Science technicians	185 475	56 993	6 128	2 116	921	370	905	227	3 013	1 199
Biological technicians	43 815	17 938	5 543	1 793	771	284	800	157	2 828	1 116
Chemical technicians	71 507	15 972	177	74	19	17	26	17	116	203
Science technicians, n.e.c.	70 153	23 083	408	249	131	69	79	53	107	71
Technicians, except health, engineering, and science	911 368	286 456	6 184	1 061	275	285	285	64	2 839	1 193
Airplane pilots and navigators	74 129	1 016	2 823	28	108	—	54	8	2 468	8
Air traffic controllers	40 131	5 922	—	—	—	—	—	—	—	—
Broadcast equipment operators	69 818	30 457	386	149	—	—	—	—	3	—
Computer programmers	313 179	97 354	574	214	114	68	24	12	134	52
Tool programmers, numerical control	8 426	2 197	28	20	5	5	8	—	15	15
Legal assistants	76 392	52 730	80	54	6	6	7	5	—	—
Technicians, n.e.c.	329 293	96 780	2 293	596	569	196	192	39	219	118
Sales occupations	9 760 157	4 671 493	18 398	6 996	8 342	4 178	2 253	625	2 289	503
Supervisors and proprietors, sales occupations	1 540 786	679 129	1 372	263	263	33	127	41	213	74
Stained	1 096 130	364 712	50	31	222	10	30	30	133	20
Self-employed	44 445	124 417	319	118	51	18	30	10	180	54
Sales representatives, finance and business services	1 802 715	633 440	5 419	1 234	54	20	15	3	1 855	307
Real estate sales occupations	558 225	140 717	254	34	28	—	15	3	36	6
Security and related occupations	444 132	289 972	—	—	—	—	—	—	—	—
Sea, land, and air sales occupations	130 551	24 146	56	24	26	20	—	—	12	—
Advertising and related sales occupations	110 001	45 450	5	196	—	—	—	—	1 807	301
Sales occupations, other business services	359 806	133 175	5 109	1 196	—	—	—	—	—	—
Sales representatives, commodities, except retail	1 268 214	179 037	9 213	3 672	6 731	3 138	1 749	399	—	—
Sales engineers	43 502	1 397	12	—	—	—	—	—	—	—
Sales representatives, mining, manufacturing, and wholesale	1 224 712	177 640	9 201	3 672	6 731	3 138	1 749	399	—	—
Sales workers, retail and personal services	5 122 504	3 416 189	2 430	1 782	1 252	956	259	176	202	116
Sales workers, commodities	3 013 062	1 728 125	114	10	66	2	9	—	24	—
Sales counter clerks	89 600	65 739	79	6	41	6	29	—	5	—
Cashiers	1 716 318	1 428 066	1 632	1 415	1 009	868	180	161	135	107
Street and door-to-door sales workers	205 244	161 279	505	316	89	64	36	15	39	5
News vendors	98 280	32 980	100	35	47	16	3	—	4	—
Sales related occupations	25 938	13 678	124	25	22	13	73	6	19	6
Demonstrators, promoters and models, sales	11 165	8 667	19	13	13	13	6	6	—	—
Auctioneers	6 799	974	90	6	9	—	67	—	14	6
Sales support occupations, n.e.c.	7 974	4 037	15	—	—	—	—	—	5	—
Administrative support occupations, including clerical	16 851 398	12 997 076	89 342	78 091	24 796	21 073	14 174	12 481	27 420	24 974
Supervisors, administrative support occupations	1 036 170	497 868	3 167	1 598	827	395	345	175	763	391
Supervisors, general office	631 337	354 492	2 213	1 293	461	283	236	151	597	350
Supervisors, computer equipment operators	152 409	77 172	379	212	144	82	37	22	21	5
Supervisors, financial records processing	44 765	22 898	23	8	—	—	12	—	68	41
Chief communications operators	159 057	30 796	505	81	222	30	56	—	181	15
Supervisors, distribution, scheduling, and adjusting clerks	408 475	241 155	1 279	937	344	255	291	227	331	157
Computer operators	384 392	226 354	1 205	880	339	250	292	219	206	132
Peripheral equipment operators	24 083	14 801	74	37	5	5	19	8	25	25

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.
Administrative support occupations, including clerical—Con.
Secretaries stenographers, and typists

OCCUPATION BY INDUSTRY

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States	Agriculture, forestry, and fisheries									
	Total, all industries		Total		Agricultural production, crops		Agricultural production, livestock		Agricultural services, except horticultural	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	12 629 425	7 451 845	35 862	10 411	7 841	3 446	6 344	3 034	4 407	1 536
Private household occupations	589 352	562 886	—	—	—	—	—	—	—	—
Protective service occupations	1 475 315	1 688 861	13 733	1 381	664	78	779	32	544	68
Supervisors, protective service occupations	94 645	4 030	395	17	24	—	2	—	2	—
Supervisors, firefighting and fire prevention occupations	20 642	109	322	—	—	—	—	—	—	—
Supervisors, police and detectives	50 785	1 697	—	—	—	—	—	—	—	—
Supervisors, guards	23 218	2 224	73	17	24	—	2	—	2	—
Firefighting and fire prevention occupations	210 223	3 508	10 523	1 133	15	—	2	—	10	—
Fire inspection and fire prevention occupations	21 163	1 715	7	889	15	—	3	—	10	—
Firefighting occupations	189 060	1 793	3 377	244	8	—	2	—	—	—
Police and detectives	557 887	43 542	—	—	—	—	—	—	—	—
Police and detectives: Public service	409 792	23 859	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	61 482	7 615	—	—	—	—	—	—	—	—
Correctional institution officers	86 613	12 068	—	—	—	—	—	—	—	—
Guards	612 560	117 781	2 815	231	625	78	775	32	532	68
Crossing guards	45 026	32 639	9	—	9	—	—	—	—	—
Guards and police, except public service	533 545	70 884	2 532	182	616	78	775	32	383	26
Protective service occupations, n.e.c.	33 989	14 254	274	49	—	—	—	—	149	42
Service occupations, except protective and household	10 564 758	6 720 098	22 129	9 030	7 177	3 368	5 565	3 002	3 863	1 468
Food preparation and service occupations	4 384 936	2 905 001	3 141	2 132	1 090	782	1 125	954	120	43
Supervisors, food preparation and service occupations	233 539	133 606	49	35	16	—	28	20	2	—
Barbers	289 213	126 745	53	30	35	23	7	—	6	—
Waiters and waitresses	1 362 390	1 195 341	149	103	63	34	60	50	—	—
Cooks, except short order	1 240 011	715 493	2 323	1 653	778	604	880	776	88	35
Short-order cooks	71 351	27 329	21	15	2	—	19	13	—	—
Food counter, fountain and related occupations	188 411	152 693	70	22	17	—	5	—	—	—
Kitchen workers, food preparation	96 984	75 926	117	65	32	15	1	—	—	—
Waiters and waitresses, assistants	262 903	112 326	62	32	31	24	10	4	4	4
Miscellaneous food preparation occupations	640 134	365 542	297	177	116	65	120	83	15	2
Health service occupations	1 726 875	1 521 629	1 066	641	160	74	119	57	753	502
Dental assistants	111 735	148 652	14	1	—	—	3	—	—	—
Nurses, except nursing	270 865	736 322	37	266	1	—	5	—	380	257
Health aides, orderlies, and attendants	1 295 487	936 455	153	368	153	49	114	52	250	229
Cleaning and building service occupations, except household	2 745 093	933 370	13 995	4 623	4 448	1 772	3 449	1 450	2 500	820
Supervisors, cleaning and building service workers	113 099	35 370	378	93	20	—	37	—	38	20
Maid and housemen	612 458	465 951	3 233	2 570	1 529	1 232	1 157	1 024	245	150
Janitors and cleaners	1 944 555	460 135	9 933	2 033	2 711	523	2 254	420	2 292	644
Laundry operators	30 279	40 408	37	33	—	—	14	—	17	—
Pest control occupations	35 082	1 933	374	9	83	—	7	—	162	6
Personal service occupations	1 707 544	1 330 098	3 927	1 634	1 478	737	852	541	236	103
Supervisors, personal service occupations	27 737	12 131	45	12	7	—	6	—	8	—
Barbers	103 673	14 015	34	26	7	—	3	—	19	6
Hairdressers and cosmetologists	544 020	477 719	171	59	41	23	7	—	29	13
Attendants, amusement and recreation facilities	91 350	519	142	60	182	9	21	—	21	—
Guides	25 595	14 762	211	89	30	14	11	—	15	8
Ushers	21 764	6 984	18	13	13	—	—	—	—	—
Public transportation attendants	67 775	53 198	—	—	—	—	—	—	—	—
Baggage porters and bellhops	19 682	1 364	37	3	—	—	2	—	3	—
Wellness service aides	36 120	49 812	—	—	—	—	—	—	—	—
Child care workers, except private household	580 168	542 016	1 447	495	447	279	159	142	50	14
Personal service occupations, n.e.c.	169 660	122 910	1 445	891	727	392	522	370	105	65
Farming, forestry, and fishing occupations	2 811 258	404 269	2 454 203	367 868	1 301 132	170 778	832 160	134 854	96 510	47 987
Farm occupations and managers	1 298 670	127 402	1 298 670	127 402	757 781	59 072	531 605	65 498	9 644	2 832
Farm occupations, except managerial	875 331	188 025	867 588	183 575	533 637	107 149	295 868	66 415	36 387	9 442
Related agricultural occupations	438 792	78 692	216 078	50 761	9 290	4 499	5 010	2 886	50 090	35 701
Supervisors, related agricultural occupations	12 886	6 140	136	357	136	15	242	—	427	—
Groundskeepers and gardeners, except farm	335 206	25 391	152 804	8 499	4 111	823	663	47	274	188
Animal caretakers, except farm	67 234	39 644	41 238	29 664	4 295	1 513	1 745	732	39 380	28 910
Graders and sorters, agricultural products	15 496	11 974	15 496	11 974	4 598	3 534	2 740	2 046	8 127	6 404
Inspectors, agricultural products	1 070	162	400	67	119	22	90	12	62	9

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Agriculture, forestry, and fisheries						Horticultural services						Forestry					
	Total, all industries		Total		Agricultural production, crops		Agricultural production, livestock		Agricultural services, except horticultural		Total		Total		Total		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con																		
Forestry and logging occupations	122 745	6 579	23 955	3 785	370	58	84	13	96	—	1 176	38	21 812	3 613	2 059	193	17 869	3 237
Supervisors, forestry and logging workers	2 725	249	2 144	200	95	41	65	11	9	—	25	29	1 889	183	1 884	317	1 567	15
Forestry workers, except logging	22 174	3 920	18 636	3 363	13	—	—	—	—	—	338	—	17 869	3 237	1 884	317	1 567	15
Timber cutting and logging occupations	92 846	2 410	3 175	222	262	17	19	2	43	12	80	—	91	15	317	—	48	—
Fishers, hunters, and trappers	55 720	3 571	47 912	2 345	54	—	73	26	6	—	3	—	48	15	250	—	19	—
Captains and other officers, fishing vessels	6 209	3 252	4 329	139	38	—	73	26	6	—	3	—	48	15	250	—	19	—
Fishers	47 509	3 123	42 633	2 149	16	—	5	—	59	12	71	—	48	15	250	—	19	—
Hunters and trappers	2 002	196	950	57	—	—	—	—	28	—	6	—	19	—	—	—	—	—
Precision production, craft, and repair occupations	12 594 175	977 950	39 174	1 795	16 149	532	6 290	505	5 772	280	6 200	176	3 091	154	3 091	154	3 091	154
Mechanics and repairers	3 798 598	126 003	21 740	1 003	11 127	116	3 279	48	3 405	38	2 023	19	1 258	39	1 258	39	1 258	39
Supervisors, mechanics and repairers	138 413	4 388	7 783	19	328	13	86	1	149	5	141	—	50	—	141	—	50	—
Mechanics and repairers, except supervisors	3 660 185	121 415	20 957	243	10 799	103	3 193	47	3 256	33	1 882	19	1 208	39	1 208	39	1 208	39
Vehicle and mobile equipment mechanics and repairers	1 586 512	20 033	12 524	94	7 497	30	1 938	10	1 779	10	941	5	543	8	543	8	543	8
Automobile mechanics	908 961	11 055	3 258	46	1 558	30	608	8	370	8	354	—	296	8	296	8	296	8
Bus, truck, and stationary engine mechanics	146 226	991	—	—	466	—	196	—	98	2	86	—	49	—	86	—	49	—
Aircraft engine mechanics	95 042	2 296	468	2	25	—	6	—	381	—	262	—	31	—	262	—	31	—
Small engine repairers	33 856	579	442	—	35	—	4	—	13	—	21	—	4	—	21	—	4	—
Automobile body and related repairers	193 023	2 147	74	—	19	—	2	—	6	—	5	—	—	—	5	—	—	—
Aircraft mechanics, except engine	15 245	1 303	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Heavy equipment mechanics	149 828	1 206	643	2	224	2	67	—	103	—	99	—	133	—	106	—	133	—
Form equipment mechanics	44 331	451	6 637	44	5 170	29	1 055	10	281	—	28	—	165	7	28	—	165	7
Industrial machinery repairers	467 613	13 932	3 356	42	1 503	26	528	1	698	8	403	—	164	6	403	—	164	6
Machinery maintenance occupations	42 798	1 496	1 105	—	29	—	4	—	36	—	28	—	—	—	28	—	—	—
Electrical and electronic equipment repairers	629 958	48 615	322	15	48	—	19	—	25	2	37	7	105	6	37	7	105	6
Electronic repairers, communications and industrial equipment	158 775	7 843	189	13	33	—	—	—	8	—	14	—	—	—	14	—	—	—
Data processing equipment repairers	46 626	3 792	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Household appliance and power tool repairers	79 856	2 308	20	—	2	—	—	—	8	—	8	—	2	—	8	—	2	—
Telephone line installers and repairers	61 103	3 075	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Telephone installers and repairers	252 469	28 765	81	2	11	—	12	—	4	2	4	—	50	—	4	—	50	—
Miscellaneous electrical and electronic equipment repairers	31 129	2 832	32	—	2	—	7	—	5	—	11	—	7	—	11	—	7	—
Heating, air conditioning, and refrigeration mechanics	143 626	1 384	178	8	64	—	38	8	55	—	—	—	13	—	—	—	13	—
Miscellaneous mechanics and repairers	769 678	35 955	4 472	84	1 658	16	666	28	1 163	13	473	7	323	18	473	7	323	18
Camera, watch, and musical instrument repairers	39 180	4 255	13	—	6	—	—	—	—	—	—	—	7	—	—	—	7	—
Locksmiths and safe repairers	18 763	1 288	8	—	—	—	—	—	—	—	—	—	8	—	—	—	8	—
Office machine repairers	38 034	1 978	14	2	5	—	—	—	—	—	—	—	—	—	—	—	—	—
Mechanical controls and valve repairers	27 609	989	24	—	—	—	—	—	2	—	15	—	—	—	15	—	—	—
Elevator installers and repairers	20 182	358	27	—	6	—	—	—	15	—	6	—	—	—	10	—	—	—
Millwrights	124 392	3 972	176	8	66	8	45	—	34	—	10	—	14	—	10	—	14	—
Specialized mechanics and repairers, n.e.c.	294 377	14 859	1 364	21	477	2	179	5	319	—	125	—	133	—	125	—	133	—
Not specified mechanics and repairers	207 141	8 256	2 846	53	1 098	6	440	21	793	13	310	7	161	6	310	7	161	6
Construction trades	4 247 010	87 263	9 297	431	3 286	132	1 701	93	709	38	2 166	59	1 024	81	2 166	59	1 024	81
Supervisors, construction occupations	741 546	12 437	1 274	36	213	8	89	—	70	—	735	28	142	—	735	28	142	—
Supervisors, brickmasons, stonemasons, and tile setters	4 654	4 43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, carpenters and related workers	32 722	230	14	—	4	—	2	—	—	—	8	—	2	—	8	—	2	—
Supervisors, electricians and power transmission installers	36 090	445	28	—	18	—	2	—	—	—	6	—	—	—	6	—	—	—
Supervisors, painters, paperhangers, and plasterers	10 063	146	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, plumbers, pipefitters, and steamfitters	16 795	94	10	—	3	—	—	—	7	—	—	—	—	—	—	—	—	—
Supervisors, n.e.c.	641 222	11 479	1 222	36	188	8	85	—	63	—	721	28	140	—	721	28	140	—
Construction trades, except supervisors	3 505 464	74 826	8 073	395	3 073	124	1 612	93	639	38	1 431	31	882	81	1 431	31	882	81
Brickmasons and stonemasons	145 940	1 638	195	2	77	—	26	—	86	—	86	—	—	—	86	—	—	—
Tile setters, floor and wall	19 592	1 338	10	—	6	—	—	—	4	—	—	—	—	—	—	—	—	—
Carpenter installers	80 472	1 338	29	19	19	—	—	—	—	—	—	—	—	—	—	—	—	—
Carpenters	1 101 536	17 136	4 183	107	1 780	28	1 168	48	243	—	284	12	468	24	284	12	468	24
Drywall installers	80 726	1 154	20	—	4	—	2	—	—	—	27	—	49	—	27	—	49	—
Electric power installers and repairers	589 071	11 904	706	8	303	6	171	2	128	—	19	—	—	—	19	—	—	—
Electrical power installers and repairers	101 996	1 705	93	15	44	15	27	—	118	—	98	—	—	—	98	—	—	—
Painters, construction and maintenance	362 982	20 413	904	143	413	50	103	31	—	—	—	—	—	—	—	—	—	—
Paperhangers	15 958	2 838	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States									
	Total, all industries					Agriculture, forestry, and fisheries				
	Total	Female	Total	Female	Total	Agricultural production, crops	Agricultural production, livestock	Agricultural services, except horticultural	Horticultural services	Forestry
Precision production, craft, and repair occupations—Con.										
Construction trades—Con.										
Construction trades, except supervisors—Con.										
Plasterers	25 110	406	5	43	—	—	5	—	—	—
Painters, pipelayers, and steamfitters	461 198	5 680	1 112	76	233	—	61	—	—	—
Concrete and terraazzo finishers	56 957	638	76	5	7	—	17	—	—	—
Carpenters	31 212	1 295	4	2	4	—	—	—	—	—
Glaziers	48 270	1 822	9	—	3	—	—	—	—	—
Insulation workers	5 073	1 129	—	—	—	—	—	—	—	—
Paving, surfacing, and tamping equipment operators	102 102	1 063	62	—	17	—	4	—	—	—
Shoofers	26 285	356	9	—	—	—	—	—	—	—
Structural duct installers	76 584	966	33	—	18	—	—	—	—	—
Structural metal workers	20 702	458	59	7	26	—	—	—	—	—
Drillers, earth	123 548	2 695	513	30	119	—	5	—	—	—
Construction trades, n.e.c.	292 695	6 620	802	61	102	—	43	—	—	—
Extrusive occupations	80 535	1 686	384	12	48	—	14	—	—	—
Supervisors, extractive occupations	68 466	862	76	—	—	—	—	—	—	—
Drillers, oil well	9 778	308	17	—	3	—	—	—	—	—
Explosives workers	84 997	2 463	191	14	22	—	13	—	—	—
Mining machine operators	48 919	1 301	134	35	29	—	16	—	—	—
Mining occupations, n.e.c.	4 255 872	758 064	7 335	1 041	1 634	—	1 267	—	—	—
Precision production occupations	1 838 155	270 250	4 608	378	1 012	—	525	—	—	—
Supervisors, production occupations	987 253	59 503	881	39	308	—	130	—	—	—
Precision metalworking occupations	187 550	3 297	36	1	29	—	7	—	—	—
Tool and die makers	22 091	5 383	2	—	2	—	—	—	—	—
Precision assemblers, metal	511 469	23 694	673	24	241	—	116	—	—	—
Machinists	33 000	1 520	16	—	2	—	—	—	—	—
Boilermakers	18 959	1 823	27	—	2	—	—	—	—	—
Precision grinders, files, and tool sharpeners	19 354	1 841	4	—	—	—	—	—	—	—
Patternmakers and model makers, metal	24 343	2 176	14	7	—	—	—	—	—	—
Lay-out workers	14 568	1 044	4	—	—	—	—	—	—	—
Precious stones and metals workers (jewelers)	14 568	1 044	4	—	—	—	—	—	—	—
Engravers, metal	122 273	4 766	105	4	33	—	7	—	—	—
Sheet metal workers	2 250	551	—	—	—	—	—	—	—	—
Miscellaneous precision metal workers	110 356	14 942	18	—	—	—	—	—	—	—
Precision woodworking occupations	4 390	4 128	3	—	—	—	—	—	—	—
Patternmakers and model makers, wood	71 905	5 238	2	—	—	—	—	—	—	—
Cabinet makers and bench carpenters	29 422	8 498	—	—	—	—	—	—	—	—
Furniture and wood finishers	4 639	1 078	13	—	—	—	—	—	—	—
Miscellaneous precision woodworkers	261 346	142 851	115	65	59	—	24	—	—	—
Precision textile, apparel, and furnishings machine workers	96 815	90 552	73	59	45	—	8	—	—	—
Dressmakers	57 515	22 644	—	2	2	—	—	—	—	—
Tailors	65 120	13 551	14	2	12	—	—	—	—	—
Upholsterers	29 752	8 834	2	—	—	—	—	—	—	—
Shoe repairers	3 861	1 976	2	—	—	—	—	—	—	—
Apparel and fabric patternmakers	8 283	5 294	22	2	—	—	10	—	—	—
Miscellaneous precision apparel and fabric workers	306 432	141 831	72	20	28	—	7	—	—	—
Precision workers, assorted materials	34 262	4 778	—	—	—	—	—	—	—	—
Hand molders and shapers, except jewelers	8 854	2 005	—	—	—	—	—	—	—	—
Patternmakers, lay-out workers, and cutters	44 836	18 058	8	2	—	—	—	—	—	—
Optical goods workers	47 012	15 076	22	8	8	—	—	—	—	—
Dental laboratory and medical appliance technicians	28 221	15 803	9	10	9	—	—	—	—	—
Bookbinders	104 496	79 456	10	10	10	—	—	—	—	—
Electrical and electronic equipment assemblers	38 751	6 655	23	—	1	—	7	—	—	—
Miscellaneous precision workers, n.e.c.	411 885	92 112	1 059	521	126	—	—	—	—	—
Precision food production occupations	277 568	38 476	836	378	99	—	537	—	—	—
Butchers and meat cutters	110 147	48 876	190	37	52	—	479	—	—	—
Bakers	21 171	8 813	193	89	57	—	13	—	—	—
Food bottlers	99 491	27 545	72	11	18	—	45	—	—	—
Precision inspectors, testers, and related workers	94 597	25 443	66	—	—	—	—	—	—	—
Inspectors, testers, and graders	3 094	2 102	6	—	—	—	—	—	—	—
Adjusters and collaborators										

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Employed persons 16 years and over—Con
Precision production, craft, and repair occupations—Con
Plant and system operators

Water and sewage treatment plant operators
Power plant operators
Stationary engineers
Miscellaneous plant and system operators
Operators, fabricators, and laborers
Machine operators, assemblers, and inspectors
Machine operators and tenders, except precision
Machine operators and plastic working machine operators
Metalworking and plastic working machine operators
Lathe and turning machine set-up operators
Lathe and turning machine operators
Milling and planing machine operators
Punching and stamping press machine operators
Rolling machine operators
Drilling and boring machine operators
Grinding, abrading, buffing, and polishing machine operators
Forging machine operators
Numerical control machine operators
Miscellaneous metal, plastic, stone, and glass working machine operators

Fabricating machine operators, n.e.c.
Metal and plastic processing machine operators
Molding and casting machine operators
Metal planing machine operators
Heat treating equipment operators
Miscellaneous metal and plastic processing machine operators
Woodworking machine operators
Wood lathe machine operators
Wood lathe machine operators
Shaping and joining machine operators
Nailing and tacking machine operators
Miscellaneous woodworking machine operators

Printing machine operators
Photoengravers and lithographers
Typesetters and compositors
Miscellaneous printing machine operators
Textile, apparel, and furnishings machine operators
Winding and twisting machine operators
Knitting, looping, taping, and weaving machine operators
Textile cutting machine operators
Textile sewing machine operators
Shoe machine operators
Pressing machine operators
Laundering and dry cleaning machine operators
Miscellaneous textile machine operators

Machine operators, assorted materials
Cementing and gluing machine operators
Packaging and filling machine operators
Extruding and forming machine operators
Mixing and blending machine operators
Separating, filtering, and clarifying machine operators
Compressing and compacting machine operators
Painting and paint spraying machine operators
Roasting and baking machine operators, food
Washing, cleaning, and pickling machine operators

Agriculture, forestry, and fisheries

Total, all industries		Total		Agriculture production, crops		Agriculture production, livestock		Agricultural species, except horticultural		Horticultural services		Forestry	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
240 754	9 030	510	7	83	2	36	—	78	2	35	—	134	3
32 555	1 000	18	—	6	—	—	—	—	—	—	—	12	—
27 354	1 312	16	—	—	—	—	—	—	—	—	—	16	—
130 068	4 023	390	5	48	2	30	—	40	—	35	—	93	3
50 777	2 695	86	2	29	—	6	—	38	2	—	—	13	—
17 859 343	4 874 300	109 045	19 891	39 657	7 291	22 382	5 055	18 260	3 699	16 811	1 375	7 391	1 072
3 084 988	5 733	24 111	5 733	7 354	1 494	5 296	1 870	5 059	1 260	2 821	353	2 562	376
5 960 505	2 407 426	17 271	3 899	4 686	1 027	3 547	1 114	4 110	1 029	2 340	265	2 074	235
715 441	124 469	464	63	135	8	117	3	88	29	69	23	39	—
53 191	3 408	—	—	—	—	—	—	—	—	—	—	—	—
112 211	9 669	34	—	9	—	2	—	15	—	—	—	3	—
20 511	1 812	20	—	—	—	14	—	6	—	—	—	—	—
150 573	46 778	50	29	10	—	2	—	6	6	32	23	—	—
18 106	1 954	—	—	—	—	—	—	—	—	—	—	—	—
60 656	12 469	2	—	—	—	2	—	—	—	—	—	—	—
251 840	42 770	306	34	97	8	97	3	42	23	32	—	32	—
14 575	1 010	23	—	2	—	—	—	12	—	—	—	4	—
2 650	210	—	—	—	—	—	—	—	—	—	—	—	—
30 928	4 389	29	—	17	—	—	—	7	—	5	—	—	—
31 820	10 880	15	7	5	1	—	—	4	—	6	6	—	—
218 268	55 847	207	39	13	13	17	11	156	—	8	4	11	11
140 585	46 903	196	28	13	13	6	—	156	—	8	4	11	11
40 675	6 203	11	—	—	—	11	11	—	—	—	—	—	—
23 270	1 260	—	—	—	—	—	—	—	—	—	—	—	—
13 908	1 501	—	—	—	—	—	—	—	—	—	—	—	—
142 032	20 514	861	75	68	12	23	3	56	9	251	13	442	30
7 223	779	11	4	—	—	—	—	—	—	7	—	4	—
94 117	10 797	674	37	37	—	15	3	5	—	197	—	410	26
8 134	3 165	5	—	—	—	—	—	5	5	—	—	—	—
4 055	1 361	52	16	27	12	—	—	25	4	—	—	—	—
28 503	4 462	119	13	4	—	8	—	21	—	47	13	28	—
422 477	11 960	194	63	4	26	5	—	32	13	18	5	80	8
286 807	47 210	175	45	43	21	5	—	18	5	18	5	79	8
25 088	4 740	—	—	—	—	—	—	19	—	—	—	—	—
67 504	37 576	18	5	5	5	—	—	13	13	—	—	—	—
43 078	22 434	1	—	—	—	—	—	—	—	—	—	—	—
1 487 303	1 208 426	613	215	203	86	122	33	133	31	70	17	38	21
102 293	76 327	33	21	25	13	—	—	—	—	5	5	—	—
68 716	44 281	7	—	—	—	—	—	—	—	—	—	—	—
8 554	4 043	15	—	—	—	—	—	—	—	—	—	—	—
829 080	780 708	205	79	68	27	21	—	58	18	23	12	15	7
68 388	50 578	22	—	6	—	6	—	—	—	16	—	—	—
97 211	73 170	45	21	7	7	—	—	22	—	—	—	—	—
173 226	112 975	50	50	18	18	26	26	4	4	—	—	16	14
140 035	66 344	236	44	85	21	69	9	49	9	18	—	—	—
2 942 964	875 310	14 917	3 437	4 214	881	3 263	1 064	3 641	947	1 918	197	1 464	165
31 778	15 143	44	3	29	3	2	—	9	—	2	—	—	—
101 599	51 891	570	293	231	87	118	60	146	105	23	12	21	9
23 009	3 135	69	16	12	3	22	16	27	—	—	—	8	—
103 929	11 243	483	17	73	15	178	18	204	14	13	—	15	—
69 719	5 681	319	105	193	23	137	30	140	4	9	—	200	48
20 234	8 858	319	48	29	17	8	—	282	31	—	—	—	—
153 314	23 750	72	32	63	17	10	2	31	13	28	—	7	—
8 203	1 899	63	18	20	12	6	6	29	12	6	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States										Agriculture, forestry, and fisheries									
	Total, all industries					Total					Agricultural production, crops					Agricultural production, livestock				
	Total	Female	Total	Female	Total	Total	Female	Total	Female	Total	Total	Female	Total	Female	Total	Total	Female	Total	Female	Total
Operators, fabricators, and laborers—Con.																				
Machine operators, assemblers, and inspectors—Con.																				
Machine operators and tenders, except precision—Con.																				
Machine operators, assorted materials—Con.																				
Folding machine operators	30 402	18 254	371	141	77	19	23	5	117	234	24	6	275	19						
Functor, kiln, and oven operators, except food	144 071	6 711	655	48	165	17	49	—	145	145	9	5	275	19						
Crushing and grinding machine operators	48 209	3 909	358	38	48	9	148	2	119	119	27	6	275	19						
Slicing and cutting machine operators	189 654	53 592	1 922	553	407	161	284	124	295	295	30	6	215	20						
Motion picture projectionists	13 734	1 286	—	—	—	—	—	—	—	—	—	—	—	—						
Photographic process machine operators	84 650	44 866	27	9	—	—	—	—	—	—	—	—	—	—						
Miscellaneous machine operators, n.e.c.	639 837	208 675	3 163	889	905	194	918	403	712	712	10	6	239	27						
Machine operators, not specified	1 273 942	418 521	5 976	1 185	1 931	307	1 337	395	1 242	1 242	288	44	486	42						
Fabricators, assemblers, and hand working occupations																				
Welders and cutters	2 299 462	832 438	5 104	1 010	2 204	233	1 323	459	664	664	126	57	206	27						
Solders and brazers	712 599	20 242	2 856	9	1 628	9	517	2	302	302	5	2	112	—						
Assemblers	36 510	23 885	8	8	6	6	2	2	—	—	—	—	—	—						
Hand cutting and trimming occupations	1 459 308	735 739	1 679	782	469	187	695	420	284	284	93	55	45	19						
Hand mauling, casting, and forming occupations	15 714	5 645	267	141	33	10	59	31	46	46	16	7	2	—						
Hand painting, coating, and decorating occupations	16 949	5 645	74	16	13	—	7	—	—	—	—	—	—	—						
Hand grading and polishing occupations	37 764	9 925	70	8	—	—	—	—	—	—	—	—	—	—						
Hand eroding and polishing occupations	2 000	635	2	—	—	—	—	—	—	—	—	—	—	—						
Miscellaneous hand working occupations	2 501	715	—	—	—	—	—	—	—	—	—	—	—	—						
Production inspectors, testers, samplers, and weighers																				
Production inspectors, checkers, and examiners	825 021	416 373	1 736	824	464	234	426	297	285	285	105	31	282	114						
Production testers	669 605	341 965	1 183	626	416	214	417	289	189	189	96	6	124	13						
Production samplers and weighers	55 702	17 932	58	30	33	20	8	—	13	13	—	—	2	—						
Graders and sorters, except agricultural	8 743	99	99	159	15	—	—	—	83	83	9	—	—	—						
Graders and sorters, except agricultural	90 971	52 852	396	—	—	—	—	—	—	—	—	—	169	25						
Transportation and material moving occupations																				
Motor vehicle operators	4 389 412	347 880	44 069	1 801	19 271	782	9 921	409	6 413	6 413	362	143	2 152	63						
Supervisors, motor vehicle operators	3 017 954	281 133	33 237	1 305	15 393	602	9 032	379	4 371	4 371	217	85	925	15						
Truck drivers, heavy	31 849	1 979	80	12	20	—	35	—	13	13	6	—	—	—						
Truck drivers, light	1 713 930	38 460	27 061	815	12 920	373	6 819	285	3 670	3 670	109	33	835	15						
Driver-sales workers	510 016	34 111	4 190	376	1 817	201	1 439	73	412	412	61	34	62	—						
Bus drivers	177 373	12 846	1 055	32	254	8	608	6	98	98	13	5	7	—						
Taxicab drivers and chauffeurs	373 603	171 129	185	21	108	13	48	8	29	29	28	7	21	—						
Parking lot attendants	174 367	19 681	642	49	274	7	76	7	142	142	4	—	—	—						
Motor transportation occupations, n.e.c.	33 461	2 766	18	—	—	—	—	—	7	7	—	—	—	—						
Rail transportation occupations	3 355	161	6	—	—	—	—	—	—	—	—	—	—	—						
Railroad conductors and yardmasters	203 230	3 197	47	6	27	—	—	—	7	7	—	—	6	6						
Locomotive operating occupations	46 130	731	6	—	—	—	—	—	—	—	—	—	6	6						
Railroad brake, signal, and switch operators	71 953	1 187	7	—	—	—	—	—	—	—	—	—	—	—						
Rail vehicle operators, n.e.c.	77 351	1 004	34	—	27	—	—	—	—	—	—	—	—	—						
Water transportation occupations	8 029	275	—	—	—	—	—	—	—	—	—	—	—	—						
Ship captains and mates, except fishing boats	68 029	1 816	308	30	16	—	6	—	24	24	2	—	13	—						
Sailors and deckhands	31 071	583	216	16	11	—	6	—	12	12	2	—	13	—						
Marine engineers	28 583	732	74	14	—	—	—	—	10	10	—	—	—	—						
Bridge, lock, and lighthouse tenders	3 359	76	15	—	2	—	—	—	2	2	—	—	—	—						
Material moving equipment operators	5 016	425	3	—	—	—	—	—	—	—	—	—	—	—						
Supervisors, material moving equipment operators	1 100 199	61 734	10 477	460	3 835	180	883	30	2 011	2 011	145	58	1 208	42						
Operating engineers	29 444	1 191	49	5	—	—	—	—	8	8	5	—	15	6						
Longshore equipment operators	194 693	2 491	1 286	9	316	—	149	—	108	108	269	—	390	9						
Hast and winch operators	3 971	92	—	—	—	—	—	—	—	—	—	—	—	—						
Crane and tower operators	28 508	609	198	32	66	30	4	—	18	18	57	—	15	—						
Excavating and loading machine operators	120 766	2 456	206	—	95	—	2	—	6	6	—	—	69	—						
Groder, dozer, and scraper operators	72 462	1 307	897	4	299	40	64	—	128	128	7	—	375	14						
Industrial truck and tractor equipment operators	66 895	1 775	1 158	69	434	98	159	5	73	73	112	4	134	—						
Miscellaneous material moving equipment operators	388 654	18 034	5 826	266	2 441	12	323	2	1 577	1 577	21	31	484	23						
	194 806	34 779	857	75	177	—	176	—	93	93	—	6	165	10						

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Agriculture, forestry, and fisheries													
	Total, all industries		Total		Agricultural production, crops		Agricultural production, livestock		Agricultural services, except horticultural		Horticultural services		Forestry	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con														
Operators, fabricators, and laborers—Con	4 384 943	880 183	40 865	12 357	13 032	5 015	7 165	2 776	6 788	2 077	8 682	879	2 677	633
Handlers, equipment cleaners, helpers, and laborers	9 853	1 521	184	—	48	—	15	—	4	—	90	—	8	—
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	24 804	1 380	170	9	60	6	38	3	35	—	37	—	34	10
Helpers, mechanics and repairers	125 983	5 406	184	23	69	—	35	8	17	—	9	—	4	—
Helpers, construction and extractive occupations	97 697	3 629	119	8	46	—	35	8	17	—	7	—	30	10
Helpers, construction trades	9 492	579	65	15	23	—	—	—	—	—	—	—	—	—
Helpers, surveyor	18 794	1 198	—	—	—	—	—	—	—	—	—	—	—	—
Helpers, extractive occupations	661 411	20 019	2 205	171	728	106	232	3	134	2	757	25	297	33
Construction laborers	108 271	19 652	366	105	59	13	53	18	47	24	127	12	37	5
Production helpers	1 259 182	192 687	6 473	648	2 429	255	1 155	119	1 830	174	534	52	285	27
Freight, stock, and material handlers	69 719	1 922	65	5	23	—	8	—	7	—	—	—	25	—
Garbage collectors	20 135	284	56	2	9	—	—	—	21	—	2	—	—	—
Sieveholders	651 770	136 919	792	265	367	99	80	50	206	93	99	13	31	10
Stock handlers and baggers	99 710	30 879	522	146	133	63	90	33	144	9	40	14	54	6
Machine feeders and oilbearers	417 848	22 683	5 038	230	1 897	91	977	36	1 452	67	391	25	175	11
Freight, stock, and material handlers, n.e.c.	302 606	23 923	204	2	81	—	30	—	20	2	51	—	7	—
Garage and service station related occupations	127 425	19 318	552	125	89	44	155	29	64	14	164	8	43	12
Vehicle washers and equipment cleaners	543 230	340 597	9 707	6 532	4 813	3 435	2 537	1 709	1 433	954	313	152	210	97
Hand packers and packagers	222 178	235 680	20 820	4 742	4 656	1 246	2 915	887	3 204	907	6 605	630	1 756	449
Laborers, except construction														

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Agriculture, forestry, and fisheries—Con.		Mining								Construction			
	Fishing, hunting, and trapping		Total		Metal mining		Coal mining		Crude petroleum and natural gas extraction				Nonmetallic mining and quarrying, except fuel	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female			Total	Female
Employed persons 16 years and over	65 946	7 322	1 028 178	124 173	123 313	11 846	271 140	15 252	517 099	86 198	116 626	10 877	5 739 598	479 766
Managerial and professional specialty occupations	5 846	759	163 274	20 486	16 078	1 752	19 757	1 450	115 351	16 078	12 088	1 206	529 753	56 261
Executive, administrative, and managerial occupations	2 734	384	90 296	14 093	7 351	1 028	12 549	1 025	61 245	11 118	9 151	922	393 537	46 511
Legislators, chief executives, and general administrators; public administration	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators and officials, public administration	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators, protective services	2	—	8	—	—	—	—	—	—	—	—	—	—	—
Financial managers	34	9	2 759	387	285	29	272	38	1 882	250	320	70	6 760	1 430
Personnel and labor relations managers	27	7	2 080	327	215	24	367	35	1 237	247	261	21	5 346	959
Purchasing managers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, marketing, advertising, and public relations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators, education and related fields	116	29	720	100	46	5	59	5	590	95	25	—	3 484	344
Managers, medicine and health	3	—	2 951	75	172	—	162	—	2 270	58	347	17	10 066	765
Managers, properties and real estate	—	—	—	—	2	—	7	—	70	—	6	—	473	34
Postmasters and mail superintendents	22	—	7 340	1 018	109	13	168	15	7 035	983	28	7	2 894	708
Funeral directors	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers and administrators, n.e.c.	—	—	14	—	11	—	—	—	3	—	—	—	92	—
Managers and administrators, n.e.c.	2 088	221	44 958	4 200	3 637	301	6 601	353	28 257	3 101	6 463	445	285 515	27 977
Salaried	1 777	183	40 807	3 991	3 496	282	6 122	334	25 361	2 953	5 828	422	221 989	24 769
Self-employed	311	38	4 151	209	141	19	479	19	2 896	148	635	23	3 526	3 208
Management related occupations	442	118	29 381	7 986	2 874	661	4 913	579	19 893	6 384	1 701	362	68 124	14 072
Accountants and auditors	129	55	16 856	5 855	1 324	366	1 424	346	13 336	4 900	772	243	24 830	9 243
Underwriters	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other financial officers	27	—	1 059	264	81	—	129	20	807	231	42	8	1 755	490
Management analysts	10	5	457	62	45	13	23	330	37	37	59	12	1 178	143
Personnel, training, and labor relations specialists	129	33	4 439	989	771	139	736	84	2 578	709	354	57	7 736	1 403
Purchasing agents and buyers, farm products	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Buyers, wholesale and retail trade except farm products	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Purchasing agents and buyers, n.e.c.	59	12	3 938	676	395	114	876	97	2 304	423	363	42	10 577	1 959
Business and promotion agents	3	—	57	11	8	—	—	—	34	11	15	—	455	39
Construction inspectors	19	—	71	—	25	—	—	—	46	—	—	—	16 105	631
Inspectors and compliance officers, except construction	48	7	2 356	87	202	17	1 716	32	358	38	80	—	5 245	116
Management related occupations, n.e.c.	18	6	142	42	23	7	9	—	94	35	16	—	234	46
Professional specialty occupations	3 112	375	72 978	6 393	8 727	724	7 208	425	54 106	4 960	2 937	284	136 216	9 750
Engineers, architects, and surveyors	404	6	36 471	1 186	4 297	139	5 323	197	25 013	816	1 838	34	110 808	3 111
Architects	27	6	89	14	6	—	13	—	68	14	2	—	4 545	357
Engineers	365	—	34 725	1 118	3 826	119	4 704	181	24 432	786	1 763	32	103 291	2 656
Aerospace engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Metallogurgical and materials engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mining engineers	3	—	504	33	396	33	7	—	45	—	7	—	165	7
Petroleum engineers	6	—	7 345	229	2 226	53	3 346	7	896	37	38	—	497	13
Chemical engineers	3	—	18 337	593	107	48	86	—	18 156	593	26	—	198	7
Nuclear engineers	—	—	1 080	29	112	—	—	—	768	29	114	—	104	—
Civil engineers	—	—	—	—	—	—	—	—	—	—	—	—	1 066	31
Agricultural engineers	49	—	1 325	41	180	—	310	23	729	18	106	—	548	2 000
Electrical and electronic engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial engineers	16	—	1 314	10	96	—	10	—	8	—	—	—	23	—
Mechanical engineers	—	—	1 479	68	168	8	208	—	898	4	112	6	7 147	142
Marine engineers and naval architects	30	—	1 332	15	277	7	371	1	823	49	117	9	3 689	151
Engineers, n.e.c.	223	—	261	23	12	—	126	—	736	7	193	—	5 531	108
Surveyors and mapping scientists	35	—	1 677	67	252	18	190	11	245	23	2	—	187	—
Mathematical and computer scientists	12	—	1 657	54	465	20	606	16	1 064	26	171	12	4 278	197
Computer systems analysts and scientists	68	16	3 181	643	277	44	218	17	2 605	566	81	16	2 665	602
Operations and systems researchers and analysts	12	7	2 159	364	173	22	147	7	1 807	330	32	5	1 500	334
Actuaries	—	—	833	218	78	15	52	6	664	190	39	7	920	196
Statisticians	—	—	15	—	—	—	—	—	—	—	—	—	—	—
Mathematical scientists, n.e.c.	56	9	126	61	19	7	19	4	84	46	6	4	204	64
Mathematical scientists, n.e.c.	—	—	48	—	7	—	—	—	41	—	—	—	41	8

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Agriculture, forestry, and fisheries—Con.		Mining						Construction								
	Fishing, hunting, and trapping		Total		Metal mining		Coal mining		Crude petroleum and natural gas extraction		Nonmetallic mining and quarrying, except fuel		Total		Female		
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
Employed persons 16 years and over—Con																	
Managerial and professional specialty occupations—Con																	
Professional specialty occupations—Con																	
Natural scientists	2 307	196	27 411	3 150	3 573	366	1 018	114	22 139	2 568	681	102	3 094	391			
Physicists and astronomers	6	—	213	11	18	5	—	—	195	6	—	—	95	8			
Chemists, except biochemists	6	—	3 667	844	639	165	365	50	2 409	581	254	48	471	77			
Atmospheric and space scientists	20	—	72	8	38	5	5	—	29	8	—	—	73	14			
Geologists and geodesists	20	—	23 014	2 220	2 752	184	515	33	19 330	1 949	417	54	1 044	126			
Physical scientists, n.e.c.	—	—	191	5	65	—	42	—	84	—	—	—	191	39			
Agricultural and food scientists	205	23	30	10	5	5	5	—	20	—	—	—	252	15			
Biological and life scientists	1 124	95	118	32	23	—	51	14	44	18	—	—	510	68			
Forestry and conservation scientists	937	78	71	14	28	7	28	7	13	—	2	—	412	33			
Medical scientists	9	—	35	6	5	—	7	—	15	6	8	—	46	11			
Health diagnosing occupations	11	7	64	4	11	4	—	—	53	—	—	—	111	31			
Physicians	—	—	57	4	11	4	—	—	46	—	—	—	43	24			
Dentists	—	—	7	—	—	—	—	—	7	—	—	—	18	—			
Veterinarians	11	7	—	—	—	—	—	—	—	—	—	—	12	—			
Optometrists	—	—	—	—	—	—	—	—	—	—	—	—	19	—			
Podiatrists	—	—	—	—	—	—	—	—	—	—	—	—	12	—			
Health diagnosing practitioners, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	12	—			
Health assessment and treating occupations	16	7	201	134	52	34	31	31	87	38	31	31	525	350			
Registered nurses	14	7	138	119	30	25	31	31	46	32	31	31	326	275			
Pharmacists	—	—	—	—	—	—	—	—	—	—	—	—	17	6			
Dietitians	—	—	25	12	6	6	—	—	19	6	—	—	57	23			
Therapists	2	—	33	3	16	3	—	—	17	—	—	—	50	30			
Physicians' assistants	—	—	—	—	—	—	—	—	—	—	—	—	75	16			
Teachers, postsecondary	15	—	112	9	33	9	65	2	10	—	4	—	153	8			
Teachers, except postsecondary	16	16	340	8	23	—	109	2	175	—	33	6	584	83			
Teachers, prekindergarten and kindergarten	—	—	—	—	—	—	—	—	—	—	—	—	24	7			
Teachers, elementary and secondary school	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Teachers, special education	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Teachers, n.e.c.	16	16	340	8	23	—	109	2	175	—	33	6	547	76			
Counselors, educational and vocational	7	7	9	—	—	—	—	—	9	—	—	—	104	23			
Librarians, archivists, and curators	27	24	323	290	47	47	—	—	261	228	15	15	267	146			
Librarians	22	22	323	290	47	47	—	—	261	228	15	15	231	142			
Archivists and curators	5	2	—	—	—	—	—	—	—	—	—	—	36	4			
Social scientists and urban planners	16	2	819	151	93	9	42	—	606	115	78	27	1 365	353			
Economists	14	—	760	151	93	9	38	—	551	115	78	27	1 053	253			
Psychologists	—	—	19	—	—	—	—	—	19	—	—	—	26	7			
Sociologists	—	—	—	—	—	—	—	—	—	—	—	—	1	—			
Social scientists, n.e.c.	—	—	34	—	—	—	—	—	34	—	—	—	187	67			
Urban planners	2	2	6	—	—	—	4	—	2	—	—	—	98	25			
Social, recreation, and religious workers	26	24	44	13	7	—	—	—	18	13	12	—	258	50			
Social workers	8	8	—	—	—	—	—	—	—	—	—	—	165	37			
Recreation workers	11	9	24	7	7	—	7	—	10	7	12	—	28	13			
Clergy	7	7	14	6	—	—	—	—	2	—	—	—	55	—			
Religious workers, n.e.c.	—	—	6	—	—	—	—	—	6	—	—	—	10	—			
Lawyers and judges	31	—	2 012	235	88	13	193	19	1 698	203	33	—	1 214	130			
Lawyers	31	—	2 012	235	88	13	193	19	1 698	203	33	—	1 214	130			
Judges	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Writers, artists, entertainers, and athletes	168	70	1 991	570	226	59	202	45	1 432	413	131	53	15 068	4 472			
Authors	—	—	25	—	6	—	—	—	19	—	—	—	51	14			
Technical writers	7	—	176	57	17	—	6	—	153	57	—	—	824	316			
Designers	—	—	443	111	64	31	55	6	287	53	37	21	10 712	3 090			
Musicians and composers	—	—	9	—	—	—	4	—	5	—	—	—	60	12			
Actors and directors	6	—	—	—	—	—	—	—	—	—	—	—	40	—			
Painters, sculptors, craft-artists, and artist printmakers	12	12	237	123	20	7	20	5	193	111	4	—	716	237			
Photographers	8	—	76	11	—	—	12	7	64	4	—	—	270	26			
Dancers	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Artists, performers, and related workers, n.e.c.	6	6	18	—	5	—	—	—	13	7	—	—	115	7			
Editors and reporters	36	30	205	106	25	19	6	6	130	65	24	16	525	290			
Public relations specialists	75	22	703	155	77	2	96	21	478	116	52	16	1 372	452			
Announcers	8	—	—	—	—	—	—	—	—	—	—	—	—	—			
Athletes	10	—	99	—	12	—	3	—	70	—	—	—	376	12			

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

United States

United States

Employed persons 16 years and over—Con.

	Agriculture, forestry, and fisheries—Con.		Mining						Total	Female		
	Fishing, hunting, and trapping		Metal mining		Coal mining		Crude petroleum and natural gas extraction				Nonmetallic mining and quarrying, except fuel	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations.....	3 555	2 147	151 901	86 097	13 028	6 312	18 267	9 289	107 075	63 205	13 531	7 291
Technicians and related support occupations.....	933	184	33 058	6 369	3 883	781	2 993	481	23 825	4 713	2 357	394
Health technologists and technicians.....	9	9	294	53	89	9	65	—	109	26	31	18
Clinical laboratory technologists and technicians.....	9	9	46	12	7	7	8	—	26	7	5	5
Dental hygienists.....	—	—	7	—	7	—	—	—	—	—	—	—
Health record technologists and technicians.....	—	—	7	—	7	—	—	—	—	—	—	—
Radiologic technicians.....	—	—	9	—	—	—	—	—	9	—	—	—
Licensed practical nurses.....	—	—	56	35	6	6	—	—	37	16	13	13
Health technologists and technicians, n.e.c.....	—	—	176	6	69	3	57	—	37	3	13	—
Engineering and related technologists and technicians.....	160	12	15 293	3 210	1 883	392	2 116	259	9 789	2 275	1 505	284
Electrical and electronic technicians.....	6	—	2 258	195	208	4	22	7	1 775	166	160	18
Industrial engineering technicians.....	—	—	61	—	4	—	—	—	22	—	13	—
Mechanical engineering technicians.....	—	—	76	—	11	—	6	—	59	—	—	—
Engineering technicians, n.e.c.....	96	12	4 907	1 146	755	169	783	149	2 322	597	1 047	231
Drafting occupations.....	44	—	5 915	1 787	670	208	684	103	4 354	1 441	207	35
Surveying and mapping technicians.....	14	—	2 076	82	235	11	506	—	1 257	71	78	—
Science technicians.....	482	83	7 939	840	831	176	136	50	6 571	597	301	17
Biological technicians.....	453	54	7 220	167	11	5	14	8	140	54	55	17
Chemical technicians.....	12	17	854	163	405	76	56	27	342	55	51	5
Science technicians, n.e.c.....	17	12	6 765	610	415	95	66	15	6 089	488	195	12
Technicians, except health, engineering, and science.....	282	80	9 632	2 266	1 080	204	676	172	7 356	1 815	520	75
Airplane pilots and navigators.....	14	—	1 098	—	27	—	167	—	869	—	35	—
Air traffic controllers.....	—	—	—	—	—	—	—	—	—	—	—	—
Broadcaster equipment operators.....	51	31	234	59	13	6	19	12	184	41	18	—
Computer programmers.....	29	5	3 171	1 030	258	53	211	84	2 554	864	148	29
Typewriters, numerical control.....	—	—	38	20	15	15	—	—	18	—	5	—
Legal assistants.....	5	5	939	557	58	34	68	42	42	481	—	—
Technicians, n.e.c.....	183	39	4 152	600	709	96	211	34	2 918	424	314	46
Sales occupations.....	338	84	10 327	847	363	44	697	64	8 211	651	1 056	88
Supervisors and proprietors, sales occupations.....	49	17	735	27	19	—	65	5	570	20	81	2
Solated.....	28	6	695	25	19	—	65	5	543	20	68	2
Self-employed.....	21	11	40	2	—	—	27	—	27	—	13	2
Sales representatives, finance and business services.....	13	—	561	64	35	—	112	6	400	52	14	6
Insurance sales occupations.....	—	—	—	—	—	—	—	—	—	—	—	—
Real estate sales occupations.....	13	—	531	47	35	—	112	6	376	41	8	—
Securities and financial services sales occupations.....	—	—	—	—	—	—	—	—	—	—	—	—
Advertising and related sales occupations.....	—	—	30	17	—	—	—	—	24	11	6	6
Sales occupations, other business services.....	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail.....	246	43	8 261	334	263	23	439	27	6 676	232	883	52
Sales engineers.....	—	—	685	—	7	—	7	—	640	—	31	—
Sales representatives, retail and personal services.....	—	—	—	—	—	—	—	—	—	—	—	—
Wholesale, retail and personal services.....	246	43	7 576	334	256	23	432	27	6 036	232	852	52
Sales workers, commodities.....	30	24	762	422	46	21	81	26	557	347	78	28
Sales workers, counter clerks.....	—	—	190	5	11	—	53	—	76	5	50	—
Cashiers.....	—	—	108	94	7	—	—	—	101	94	—	—
Street and door-to-door sales workers.....	24	24	377	310	21	21	28	26	300	235	28	28
News vendors.....	6	—	59	5	7	—	—	—	52	5	—	—
Sales related occupations.....	—	—	28	8	—	—	—	—	28	8	—	—
Demonstrators, promoters and models, sales.....	—	—	8	—	—	—	—	—	8	—	—	—
Auctioneers.....	—	—	8	—	—	—	—	—	8	—	—	—
Sales support occupations, n.e.c.....	—	—	—	—	—	—	—	—	—	—	—	—
Administrative support occupations, including clerical.....	2 284	1 879	108 516	78 881	8 782	5 487	14 577	8 744	75 039	57 841	10 118	6 809
Supervisors, administrative support occupations.....	198	69	2 256	679	605	162	636	158	5 017	1 779	536	157
Supervisors, general office.....	174	58	2 771	1 286	230	103	277	81	2 050	997	214	105
Supervisors, computer equipment operators.....	8	—	522	22	42	6	30	3	443	49	7	—
Supervisors, financial records processing.....	10	5	2 651	838	247	53	240	63	2 015	678	149	44
Chief communications operators.....	—	—	70	11	6	—	8	—	21	5	35	—
Supervisors, distribution, scheduling, and adjusting clerks.....	6	6	780	63	80	—	81	5	488	50	131	8
Computer equipment operators.....	25	22	4 647	1 993	309	98	309	155	3 796	1 561	271	179
Computer operators.....	25	22	4 520	1 905	260	90	279	133	3 731	1 524	250	158
Peripheral equipment operators.....	—	—	127	88	11	8	30	22	65	37	21	21

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Agriculture, forestry, and fisheries—Con		Fishing, hunting, and trapping		Total		Metal mining		Coal mining		Crude petroleum and natural gas extraction		Nonmetallic mining and quarrying, except fuel		Construction	
	Total		Total		Total		Total		Total		Total		Total		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations—Con																
Administrative support occupations, including clerical—Con																
Secretaries, stenographers, and typists	987	970	40 058	39 511	2 964	2 906	4 340	4 259	30 192	29 846	2 562	2 500	152 542	150 233		
Secretaries	793	781	37 378	36 898	2 669	2 611	4 049	3 988	28 246	27 957	2 371	2 333	141 082	139 167		
Stenographers	119	119	475	464	33	33	41	41	368	357	133	133	1 131	1 131		
Typists	175	170	2 205	2 149	262	257	230	230	1 555	1 530	158	132	10 329	9 944		
Information clerks	54	48	2 845	2 423	201	165	254	142	2 149	1 888	241	228	10 967	10 240		
Interviewers	—	—	161	112	2	—	6	—	—	92	20	20	294	179		
Hotel clerks	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Transportation ticket and reservation agents	—	—	160	75	27	20	12	—	104	48	17	7	209	64		
Receptionists	41	41	1 999	1 967	136	133	117	103	1 562	1 547	184	184	8 187	8 042		
Information clerks, n e c	13	7	525	269	36	12	119	39	350	201	20	17	2 977	1 955		
Records processing occupations, except financial	40	26	3 216	2 370	209	117	352	250	2 382	1 832	273	171	5 008	4 008		
Classified-ad clerks	—	—	36	12	8	—	2	—	26	12	—	—	—	—		
Correspondence clerks	—	—	40	28	—	—	2	—	38	26	—	—	—	—		
Order clerks	6	6	654	312	56	18	81	25	361	193	156	76	1 738	624		
Personnel clerks, except payroll and timekeeping	17	17	430	351	76	48	140	121	156	133	58	49	717	534		
Library clerks	—	—	12	12	5	5	—	—	—	7	—	—	—	—		
File clerks	3	3	1 784	1 469	56	38	114	89	1 570	1 311	44	31	3 102	2 554		
Records clerks	14	—	260	186	8	8	13	13	224	150	15	15	247	181		
Financial records processing occupations	391	347	18 330	15 126	1 188	868	2 488	1 968	12 282	10 374	2 372	1 916	107 151	94 900		
Bookkeepers, accounting, and auditing clerks	358	330	15 134	12 723	819	602	1 766	1 463	10 617	9 062	1 932	1 596	93 263	84 899		
Payroll and timekeeping clerks	27	17	2 053	1 598	272	186	573	423	946	807	262	182	10 764	7 730		
Billing clerks	—	—	732	620	58	58	118	59	439	401	117	102	1 978	1 643		
Cost and rate clerks	6	—	258	77	23	6	22	14	182	47	31	10	802	336		
Billing, posting, and calculating machine operators	—	—	153	108	16	16	9	9	98	57	30	26	344	292		
Duplicating, mail, and other office machine operators	13	13	365	208	13	11	57	17	289	174	6	6	556	339		
Duplicating machine operators	8	8	150	99	11	11	22	6	111	76	6	6	259	145		
Mail preparing and paper handling machine operators	5	5	30	17	—	—	—	—	30	17	—	—	—	—		
Office machine operators, n e c	—	—	185	92	2	—	35	11	148	81	—	—	255	139		
Communications equipment operators	—	—	630	543	65	46	90	65	345	314	130	118	1 585	1 340		
Telephone operators	—	—	602	535	52	46	82	57	338	314	130	118	1 529	1 323		
Telegraphers	—	—	15	8	7	—	8	8	—	—	—	—	30	11		
Communications equipment operators, n e c	—	—	13	—	6	—	—	—	7	—	—	—	—	6		
Mail and message distributing occupations	20	20	1 300	526	86	17	149	32	1 035	470	30	7	2 623	929		
Postal clerks, except mail carriers	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Mail carriers, except postal service	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Mail carriers	10	10	1 012	477	76	10	91	18	824	442	21	7	1 370	573		
Messengers	10	10	288	14	10	7	58	14	211	28	9	—	1 253	356		
Material recording, scheduling, and distributing clerks	136	66	13 785	3 363	1 730	305	3 872	516	5 809	1 824	2 374	718	23 133	5 198		
Dispatchers	8	8	1 805	380	42	42	38	35	1 487	319	238	56	2 380	1 618		
Production coordinators	32	15	2 284	995	260	60	162	25	1 671	854	191	56	4 657	1 346		
Traffic, shipping, and receiving clerks	47	22	1 220	315	154	49	53	54	514	106	308	107	2 957	490		
Stock and inventory clerks	24	8	5 556	731	932	102	2 694	238	1 472	351	458	40	8 106	1 525		
Meter readers	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Weights, measurers, and checkers	22	10	2 062	677	238	54	634	171	77	8	1 113	444	1 366	394		
Samplers	—	—	101	28	—	—	—	—	93	20	8	8	58	—		
Expeditors	3	3	605	178	67	33	63	17	437	121	38	7	3 219	697		
Material recording, scheduling, and distributing clerks, n e c	—	—	152	59	37	7	37	7	58	45	20	—	390	128		
Adjusters and investigators	24	5	1 438	367	106	25	176	45	1 089	283	67	14	3 978	968		
Insurance adjusters, examiners, and investigators	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Investigators and adjusters, except insurance	24	5	1 320	302	100	25	174	45	979	218	67	14	3 240	720		
Eligibility clerks, social welfare	—	—	8	8	—	—	—	—	8	8	—	—	130	92		
Bill and account collectors	—	—	110	57	6	—	2	—	102	57	—	—	608	156		
Miscellaneous administrative support occupations	396	293	15 108	10 195	1 344	767	1 854	1 137	10 654	7 496	1 256	795	45 793	32 028		
Bank and office clerks	248	217	8 993	6 200	819	417	1 174	783	6 089	4 421	911	579	33 616	25 441		
Bank tellers	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Proofreaders	—	—	21	21	6	6	—	—	15	15	—	—	110	79		
Data-entry keyers	47	47	2 871	2 562	214	202	272	255	2 227	1 973	158	152	4 089	3 727		
Statistical clerks	23	9	1 279	776	123	51	114	39	984	671	58	15	1 666	986		
Teachers' aides	—	—	19	13	6	6	—	—	13	13	—	—	44	24		
Administrative support occupations, n e c	78	20	1 925	603	176	91	294	60	1 326	403	129	49	6 288	1 773		

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Agriculture, forestry, and fisheries—Con.		Mining										Construction	
	Fishing, hunting, and trapping		Total		Metal mining		Coal mining		Crude petroleum and natural gas extraction		Nonmetallic mining and quarrying, except fuel			
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Service occupations	1 673	389	17 577	2 437	3 526	515	4 196	499	7 100	1 092	2 755	331	45 324	10 053
Private household occupations	411	2	4 579	254	1 083	68	1 839	63	974	61	683	62	7 870	640
Protective service occupations	—	—	134	—	29	—	32	—	55	—	18	—	189	—
Supervisors, protective service occupations	—	—	25	—	7	—	—	—	13	—	5	—	18	—
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, guards	—	—	109	—	22	—	32	—	42	—	13	—	171	—
Firefighting and fire prevention occupations	111	2	118	—	29	—	20	—	60	—	9	—	328	30
Fire inspection and fire prevention occupations	95	—	59	—	16	—	9	—	32	—	2	—	232	30
Firefighting occupations	16	2	59	—	13	—	11	—	28	—	7	—	96	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Guards	300	—	4 327	254	1 025	68	1 787	63	859	61	656	62	7 353	610
Crossing guards	—	—	6	—	—	—	6	—	—	—	—	—	65	—
Guards and police, except public service	217	—	4 304	252	1 012	68	1 781	63	857	61	654	60	7 223	574
Protective service occupations, n.e.c.	83	—	17	2	13	—	—	—	2	—	2	—	65	36
Food preparation and service occupations	1 262	387	12 998	2 183	2 443	447	2 357	436	6 126	1 031	2 072	269	37 454	9 413
Food preparation and service occupations	521	264	1 535	221	70	53	40	19	1 369	133	56	16	1 840	916
Supervisors, food preparation and service occupations	3	3	29	—	—	—	—	—	29	—	—	—	105	25
Barbers	—	—	21	—	—	—	—	—	15	—	6	—	140	57
Waiters and waitresses	2	2	50	25	11	9	28	19	39	16	—	—	222	126
Cooks, except short order	424	189	1 212	149	41	36	2	—	1 100	85	43	9	816	392
Short-order cooks	—	—	11	—	—	—	2	—	9	—	—	—	33	7
Food counter, fountain and related occupations	3	—	24	9	5	—	10	—	2	2	7	7	92	37
Kitchen workers, food preparation	68	49	8	8	—	—	—	—	8	8	—	—	68	58
Waiters and waitresses assistants	—	—	—	—	—	—	—	—	—	—	—	—	45	—
Miscellaneous food preparation occupations	21	21	180	30	13	8	—	—	167	22	—	—	277	169
Health service occupations	4	2	105	68	70	41	—	—	29	27	6	—	398	224
Dental assistants	—	—	8	8	—	—	—	—	8	8	—	—	2	—
Health aides, except nursing	—	—	26	5	26	5	—	—	—	—	—	—	28	14
Nursing aides, orderlies, and attendants	4	2	71	55	44	36	—	—	21	19	6	—	368	210
Cleaning and building service occupations, except household	566	73	10 957	1 803	2 281	353	2 206	415	4 487	806	1 983	229	33 419	7 498
Supervisors, cleaning and building service workers	2	—	329	5	68	5	84	—	124	—	53	—	837	111
Maid and housemen	68	3	442	182	109	40	110	35	167	83	56	24	3 395	1 595
Janitors and cleaners	496	70	10 114	1 616	2 102	308	2 004	380	4 155	723	1 853	205	29 372	5 718
Elevator operators	—	—	72	—	2	—	8	—	41	—	21	—	686	67
Pest control occupations	—	—	—	—	—	—	—	—	—	—	—	—	129	7
Personal service occupations	171	48	401	91	22	—	111	2	241	65	27	24	1 797	775
Supervisors, personal service occupations	—	—	35	12	—	—	16	—	7	—	12	12	76	10
Barbers	—	—	—	—	—	—	—	—	—	—	—	—	37	11
Hairdressers and cosmetologists	6	—	6	—	—	—	—	—	6	—	—	—	122	61
Attendants, amusement and recreation facilities	14	—	16	—	6	—	10	—	—	—	—	—	312	35
Guides	99	29	13	—	6	—	—	—	7	—	—	—	105	25
Ushers	—	—	—	—	—	—	—	—	—	—	—	—	38	34
Public transportation attendants	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	—	—	—	—	—	—	—	—	—	7	—
Welfare service aides	38	5	48	16	—	—	10	—	35	16	3	—	197	129
Child care workers, except private household	14	14	283	63	10	—	75	2	186	49	12	12	903	470
Personal service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farming, forestry, and fishing occupations	48 656	2 480	694	14	48	—	184	2	350	12	112	—	9 059	374
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	308	55	16	—	—	—	6	—	8	—	2	—	51	—
Related agricultural occupations	716	86	334	12	30	—	67	—	164	12	73	—	7 701	358
Supervisors, related agricultural occupations	206	17	—	—	—	—	—	—	—	—	—	—	77	—
Groundskeepers and gardeners, except farm	331	48	298	12	24	—	59	—	151	12	64	—	7 565	358
Animal caretakers, except farm	110	9	30	—	6	—	8	—	7	—	9	—	17	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	69	12	6	—	—	—	—	—	6	—	—	—	42	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Agriculture, forestry, and fisheries—Con.		Mining						Construction							
	Fishing, hunting, and trapping		Total		Metal mining		Coal mining		Crude petroleum and natural gas extraction		Nonmetallic mining and quarrying, except fuel		Total		Female	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con.																
Forestry and logging occupations	417	63	219	2	16	—	92	2	84	—	27	—	1 163	8		
Supervisors, forestry and logging workers	38	7	8	—	8	—	—	—	6	—	—	—	17	—		
Timber workers, except logging	225	45	55	—	—	—	33	—	—	—	14	—	485	—		
Timber logging occupations	154	11	156	2	8	—	59	2	78	—	11	—	661	8		
Fishers, hunters, and trappers	47 215	2 276	125	—	2	—	19	—	94	—	10	—	144	8		
Captains and other officers, fishing vessels	4 161	113	109	—	2	—	—	—	86	—	2	—	20	—		
Fishers	42 162	2 106	13	—	—	—	—	—	5	—	8	—	54	—		
Hunters and trappers	892	57	3	—	—	—	—	—	3	—	—	—	70	8		
Precision production, craft, and repair occupations	1 672	148	425 400	7 945	54 637	1 335	139 142	1 941	194 123	3 896	37 498	773	3 304 702	50 595		
Mechanics and repairers	648	2	74 498	817	15 946	337	25 828	111	22 979	328	9 745	41	181 595	1 772		
Supervisors, mechanics and repairers	29	—	3 221	9	669	—	1 030	—	1 121	9	401	—	6 432	77		
Mechanics and repairers, except supervisors	619	2	71 277	808	15 277	337	24 798	111	21 858	319	9 344	41	175 163	1 695		
Vehicle and mobile equipment mechanics and repairers	326	—	20 589	177	5 261	120	7 109	24	4 725	15	3 494	18	44 816	464		
Automobile mechanics	72	—	6 154	64	1 935	58	1 147	—	2 106	6	966	—	16 217	112		
Bus, truck, and stationary engine mechanics	96	—	1 906	17	237	—	178	—	105	—	386	—	4 112	7		
Aircraft engine mechanics	17	—	168	—	7	—	4	—	157	—	—	—	284	—		
Small engine repairers	124	—	137	—	6	—	—	—	131	—	—	—	239	6		
Automobile body and related repairers	—	—	229	—	9	—	34	—	174	—	—	—	632	7		
Aircraft mechanics, except engine	—	—	16	—	10	—	4	—	2	—	—	—	32	—		
Heavy equipment mechanics	17	—	11 766	113	3 012	62	5 673	24	995	9	2 086	18	46 779	329		
Farm equipment mechanics	—	—	213	—	45	—	69	—	55	—	44	—	521	3		
Industrial machinery repairers	59	—	22 694	278	4 405	124	7 351	38	8 734	112	2 204	4	9 677	121		
Machinery maintenance occupations	8	—	5 943	103	902	38	3 321	46	954	13	766	6	4 718	130		
Electrical and electronic equipment repairers	29	—	1 610	65	288	13	554	3	667	49	101	—	11 363	319		
Electronic repairers, communications and industrial equipment	29	—	874	23	157	6	340	—	322	17	55	—	3 800	111		
Data processing equipment repairers	—	—	113	24	15	7	12	—	86	14	—	—	297	36		
Household appliance and power tool repairers	—	—	126	—	20	—	15	—	82	—	9	—	3 042	19		
Telephone line installers and repairers	—	—	24	7	13	—	—	—	11	—	—	—	1 188	30		
Telephone installers and repairers	—	—	164	11	19	—	70	—	52	11	23	—	2 088	145		
Miscellaneous electrical and electronic equipment repairers	—	—	309	—	64	—	117	—	114	—	14	—	948	6		
Heating, air conditioning, and refrigeration mechanics	8	—	267	15	42	6	17	—	192	9	16	—	42 325	264		
Miscellaneous mechanics and repairers	189	2	20 174	170	4 379	36	6 446	—	6 586	121	2 763	13	38 264	397		
Camera, watch, and musical instrument repairers	—	—	78	—	7	—	—	—	71	—	—	—	270	6		
Locksmiths and safe repairers	—	—	27	9	14	9	—	—	18	—	—	—	294	14		
Office machine repairers	—	—	51	6	14	—	13	—	24	6	—	—	140	—		
Mechanical controls and valve repairers	7	—	825	12	80	—	40	—	692	12	13	—	645	9		
Elevator installers and repairers	—	—	—	—	9	—	13	—	4	—	—	—	10 245	78		
Millwrights	7	—	1 855	23	1 062	3	141	—	184	12	468	8	11 498	91		
Specified mechanics and repairers, n.e.c.	131	2	8 193	85	1 594	19	2 423	—	3 255	62	921	4	10 138	144		
Not specified mechanics and repairers	44	—	9 119	35	1 604	5	3 816	—	2 338	29	1 361	1	5 034	55		
Construction trades	411	28	36 831	619	6 842	155	13 395	111	13 163	282	3 431	71	3 037 683	47 037		
Supervisors, construction occupations	25	—	3 459	46	534	—	922	12	1 600	24	403	10	646 475	9 428		
Supervisors, brickmasons, stonemasons, and tile setters	—	—	—	—	—	—	4	—	14	—	—	—	4 178	29		
Supervisors, carpenters and related workers	—	—	44	—	26	—	—	—	297	—	—	—	27 265	170		
Supervisors, electricians and power transmission installers	—	—	1 056	—	284	—	398	—	—	—	77	—	16 866	98		
Supervisors, painters, paperhangers, and plasterers	—	—	40	—	—	—	—	—	31	—	9	—	8 481	88		
Supervisors, plumbers, pipefitters, and steamfitters	—	—	365	7	18	—	—	—	338	7	9	—	13 239	42		
Supervisors, n.e.c.	25	—	1 954	39	206	—	520	12	920	17	308	10	576 246	9 001		
Construction trades, except supervisors	386	28	33 372	573	6 308	155	12 473	99	11 563	258	3 028	61	2 391 208	37 609		
Brickmasons and stonemasons	6	—	878	15	138	5	631	—	48	—	61	10	144 302	1 016		
Tile setters, hard and soft	—	—	17	12	—	—	—	—	17	—	—	—	25 022	364		
Carpet installers	—	—	—	—	—	—	—	—	—	—	—	—	34 939	462		
Carpenters	240	—	3 949	104	1 051	41	1 979	43	571	—	348	20	887 802	10 096		
Drywall installers	—	—	—	—	—	—	—	—	—	—	—	—	78 006	1 380		
Electricians	28	—	16 872	139	3 512	49	8 676	30	3 235	60	1 449	—	275 650	3 064		
Electrical power installers and repairers	3	—	476	30	78	6	161	5	21	19	21	—	5 216	55		
Painters, construction and maintenance	64	21	939	70	218	24	106	2	418	28	197	18	250 109	11 241		
Paperhangers	3	—	12	—	10	—	2	—	—	—	—	—	12 842	2 477		

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Agriculture, forestry, and fisheries—Con.	Mining						Construction							
	Fishing, hunting, and trapping		Metal mining		Coal mining			Crude petroleum and natural gas extraction		Nonmetallic mining and quarrying, except fuel		Total		
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con.														
Construction trades—Con.														
Construction trades, except supervisors—Con.														
Plasterers.....	—	—	49	6	—	—	—	—	2 068	43	49	6	22 698	257
Plumbers, pipefitters, and steamfitters.....	12	—	3 278	90	729	24	290	—	—	—	191	7	280 353	2 612
Concrete and terrazzo finishers.....	11	—	116	—	28	—	12	—	60	—	16	—	54 004	546
Glaziers.....	—	—	45	—	5	—	—	—	15	—	25	—	11 041	86
Insulation workers.....	—	—	236	—	7	—	6	—	174	—	49	—	34 433	848
Paving, surfacing, and tamping equipment operators.....	—	—	36	—	2	—	—	—	15	—	12	—	4 568	81
Roofers.....	—	—	40	—	13	—	23	—	4	—	—	—	98 731	991
Sheetmetal duct installers.....	—	—	—	—	—	—	—	—	—	—	—	—	16 252	79
Structural metal workers.....	—	—	313	8	86	—	—	—	166	8	15	—	55 933	564
Drillers, earth.....	7	7	1 409	48	216	—	333	—	710	48	350	—	17 341	174
Construction trades, n.e.c.....	12	—	4 464	46	206	6	180	—	3 846	40	232	—	81 966	1 216
Extractive occupations.....	129	—	278 532	5 425	27 336	754	93 568	1 624	136 829	2 720	20 799	529	3 506	55
Supervisors, extractive occupations.....	65	—	77 886	1 529	7 234	108	20 389	143	42 668	1 222	7 547	56	220	—
Drillers, oil well.....	44	—	66 888	1 169	260	12	389	—	66 092	735	207	—	591	36
Explosives workers.....	—	—	5 030	117	1 166	31	2 202	32	1 092	41	570	13	1 722	13
Mining machine operators.....	12	—	82 044	2 122	14 379	415	52 289	1 149	7 762	332	7 614	226	493	6
Mining occupations, n.e.c.....	8	—	46 784	1 090	4 297	188	18 351	298	19 275	370	4 861	234	280	—
Precision production occupations.....	484	118	35 539	882	4 513	89	6 351	95	21 152	566	3 523	132	81 918	731
Supervisors, production occupations.....	154	29	10 820	273	1 766	25	2 799	25	4 937	163	1 318	60	18 513	524
Precision metalworking occupations.....	17	—	5 463	43	1 674	9	1 013	—	2 120	31	656	3	50 777	483
Tool and die makers.....	—	—	9	—	33	—	14	—	—	—	15	—	359	13
Precision assemblers, metal.....	—	—	28	9	8	—	1	—	9	—	1	—	33	3
Machinists.....	10	—	4 482	23	1 168	1	912	—	1 826	22	576	—	4 824	72
Patternmakers.....	—	—	565	—	371	—	30	—	144	—	20	—	8 548	37
Precision grinders, filers, and tool sharpeners.....	—	—	23	—	—	—	7	—	16	—	—	—	179	10
Patternmakers and model makers, metal.....	—	—	—	—	—	—	2	—	6	—	—	—	120	—
Lay-out workers.....	—	—	46	—	14	—	7	—	25	—	—	—	430	22
Precious stones and metals workers (jewelers).....	7	—	58	11	22	8	—	—	16	—	20	3	63	19
Engravers, metal.....	—	—	—	—	—	—	—	—	—	—	—	—	30	—
Sheet metal workers.....	—	—	152	—	58	—	26	—	44	—	24	—	36 145	296
Miscellaneous precision metal workers.....	—	—	5	—	—	—	5	—	—	—	—	—	46	—
Precision woodworking occupations.....	—	—	47	—	6	—	6	—	35	—	—	—	1 484	82
Patternmakers and model makers, wood.....	—	—	7	—	—	—	—	—	7	—	—	—	79	—
Cabinet makers and bench carpenters.....	—	—	6	—	6	—	—	—	—	—	—	—	1 006	22
Furniture and wood finishers.....	—	—	18	—	—	—	—	—	18	—	—	—	351	60
Miscellaneous precision woodworkers.....	—	—	—	—	—	—	6	—	10	—	—	—	48	—
Precision textile, apparel, and furnishings machine workers.....	12	2	90	35	11	5	—	—	32	9	47	21	643	222
Dressmakers.....	—	—	46	26	1	1	—	—	21	9	24	16	425	203
Tailors.....	—	—	25	5	—	—	—	—	2	—	23	5	34	5
Upholsterers.....	—	—	—	—	—	—	—	—	—	—	—	—	103	6
Shoe repairers.....	—	—	13	4	4	4	—	—	9	—	—	—	30	—
Apparel and fabric patternmakers.....	—	—	—	—	—	—	—	—	—	—	—	—	36	—
Miscellaneous precision apparel and fabric workers.....	12	2	6	—	6	—	—	—	—	—	—	—	15	8
Precision workers, assorted materials.....	—	—	588	41	56	—	40	—	146	41	346	—	974	97
Hand molders and shapers, except jewelers.....	—	—	364	—	—	—	12	—	6	—	346	—	224	14
Patternmakers, lay-out workers, and cutters.....	—	—	2	—	—	—	2	—	—	—	—	—	96	—
Optical goods workers.....	—	—	—	—	—	—	—	—	1	—	—	—	47	—
Dental laboratory and medical appliance technicians.....	—	—	—	—	—	—	—	—	—	—	—	—	11	—
Bookbinders.....	—	—	—	—	—	—	—	—	—	—	—	—	35	9
Electrical and electronic equipment assemblers.....	—	—	77	41	—	—	—	—	77	41	—	—	253	74
Miscellaneous precision workers, n.e.c.....	—	—	144	—	56	—	26	—	62	—	—	—	308	—
Precision food production occupations.....	157	87	74	6	10	—	16	6	48	—	—	—	630	69
Butchers and meat cutters.....	150	87	43	—	8	—	10	—	25	—	—	—	496	18
Bakers.....	—	—	31	6	2	—	6	—	23	—	—	—	115	51
Food batchmakers.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Precision inspectors, testers, and related workers.....	7	—	246	2	3	—	66	—	167	—	10	2	1 994	97
Inspectors, testers, and graders.....	—	—	246	2	3	—	66	—	167	—	10	2	1 971	97
Adjusters and calibrators.....	—	—	—	—	—	—	—	—	—	—	—	—	23	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Agriculture, forestry, and fisheries—Con.		Mining						Construction					
	Fishing, hunting, and trapping		Total		Metal mining		Coal mining		Crude petroleum and natural gas extraction		Nonmetallic mining and quarrying, except fuel		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Precision production, craft, and repair occupations—Con.														
Precision production occupations—Con.														
Plant and system operators	144	—	18 211	482	987	50	2 411	64	13 667	322	1 146	46	6 903	157
Water and sewage treatment plant operators	—	—	94	16	20	7	27	9	40	—	7	—	201	27
Power plant operators	—	—	236	3	3	—	—	—	86	—	57	—	352	6
Stationary engineers	144	—	9 742	234	319	19	1 655	22	7 479	186	289	7	3 412	81
Miscellaneous plant and system operators	—	—	8 139	229	573	21	711	33	6 062	136	793	39	2 938	43
Operators, fabricators, and laborers	4 544	1 399	269 332	7 194	35 996	1 932	89 594	2 071	93 100	1 915	50 642	1 276	1 320 270	33 557
Machine operators, assemblers, and inspectors	1 019	380	46 496	1 644	9 484	476	10 393	164	16 722	548	9 897	456	151 138	5 869
Machine operators and helpers, except precision	514	229	16 611	1 004	4 677	326	2 274	45	4 201	355	5 459	278	47 845	2 753
Metalworking and plastic working machine operators	16	—	2 386	56	418	27	246	10	1 394	12	328	7	4 464	169
Lathe and turning machine operators	—	—	2	—	—	—	—	—	2	—	—	—	79	—
Lathe and turning machine operators	5	—	370	—	65	—	60	—	234	—	11	—	1 363	22
Milling and planing machine operators	—	—	74	—	29	—	13	—	13	—	19	—	61	—
Punching and stamping press machine operators	—	—	259	4	144	—	41	—	54	2	20	2	925	48
Rolling machine operators	—	—	28	—	—	—	—	—	28	—	—	—	37	19
Drilling and boring machine operators	—	—	248	37	116	27	58	10	49	—	25	—	371	13
Grinding, abrading, buffing, and polishing machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Forging machine operators	6	—	1 299	5	54	—	66	—	942	—	237	5	1 407	50
Numerical control machine operators	5	—	82	10	8	—	8	—	60	10	6	—	134	10
Miscellaneous metal, plastic, stone, and glass working machine operators	—	—	18	—	—	—	—	—	9	—	9	—	—	—
Fabricating machine operators, n.e.c.	—	—	6	—	2	—	—	—	3	—	1	—	117	7
Metal and plastic processing machine operators	—	—	132	16	21	—	6	—	105	16	—	—	392	18
Molding and casting machine operators	2	—	364	45	121	29	97	—	97	13	49	3	914	49
Metal plating machine operators	2	—	258	40	61	24	80	—	84	13	33	3	502	24
Heat treating equipment operators	—	—	62	—	42	—	9	—	9	—	2	—	186	4
Miscellaneous metal and plastic processing machine operators	—	—	15	—	8	—	—	—	2	—	5	—	77	—
Woodworking machine operators	—	—	29	5	10	5	8	—	2	—	9	—	149	21
Wood lathe, routing, and planing machine operators	21	8	429	14	32	—	228	2	50	10	119	2	1 725	117
Sawing machine operators	—	—	3	—	—	—	—	—	3	—	—	—	44	—
Shaping and joining machine operators	10	8	234	14	24	—	76	2	32	10	102	2	1 478	108
Nailing and tacking machine operators	—	—	19	—	—	—	—	—	14	—	5	—	88	—
Miscellaneous woodworking machine operators	11	—	173	—	8	—	152	—	1	—	12	—	113	9
Printing machine operators	11	11	501	185	51	20	26	9	370	154	54	2	925	218
Photoengravers and lithographers	11	11	378	110	14	—	10	—	300	108	54	2	729	180
Typesetters and compositors	—	—	59	27	23	14	7	—	29	13	—	—	28	6
Miscellaneous printing machine operators	—	—	48	48	6	6	9	—	33	33	—	—	102	19
Textile, apparel, and furnishings machine operators	—	—	16	—	8	—	—	—	8	—	—	—	66	13
Winding and twisting machine operators	47	27	561	238	50	28	75	—	155	43	281	167	1 130	248
Knitting, looping, taping, and weaving machine operators	3	3	30	11	8	6	2	—	12	2	8	3	131	19
Textile cutting machine operators	7	—	18	10	—	—	—	—	18	10	—	—	55	13
Textile sewing machine operators	—	—	21	—	—	—	—	—	9	—	12	—	18	—
Shoe machine operators	20	15	265	174	6	—	36	—	45	21	178	153	582	177
Pressing machine operators	—	—	23	8	8	8	—	—	—	—	—	—	44	5
Laundry and dry cleaning machine operators	2	2	32	6	7	—	—	—	8	—	7	—	48	22
Miscellaneous textile machine operators	15	7	172	29	21	14	37	—	61	10	53	5	150	12
Machine operators, assorted materials	417	183	12 238	450	3 984	222	1 596	24	2 030	107	4 328	97	38 295	1 934
Cementing and gluing machine operators	2	—	137	2	16	—	—	—	88	—	33	2	2 562	37
Packaging and filling machine operators	31	20	104	—	17	—	17	—	31	—	39	—	177	20
Extruding and forming machine operators	—	—	72	—	58	—	—	—	9	—	5	—	206	—
Mixing and blending machine operators	—	—	793	28	95	6	31	—	451	9	216	13	1 466	59
Separating, filtering, and clarifying machine operators	2	—	1 874	70	570	45	630	12	415	7	259	6	283	5
Compressing and compacting machine operators	—	—	72	15	13	6	15	—	20	—	24	9	67	8
Painting and paint spraying machine operators	3	—	297	6	12	—	34	—	172	6	79	—	—	—
Roasting and baking machine operators, food	—	—	34	—	24	—	2	—	—	—	8	—	30	—
Washing, cleaning, and pickling machine operators	—	—	34	6	2	—	4	—	6	—	22	6	5	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

Occupation	Agriculture, forestry, and fisheries—Con.		Mining								Construction	
	Total		Total		Metal mining		Coal mining		Crude petroleum and natural gas extraction		Nonmetallic mining and quarrying, except fuel	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States												
Employed persons 16 years and over—Con.												
Operators, fabricators, and laborers—Con.												
Machine operators, assemblers, and inspectors—Con.												
Machine operators and tenders, except precision—Con.												
Machine operators, assorted materials—Con.												
Fishing, hunting, and trapping	7	—	30	—	23	—	1	—	6	—	—	—
Fishing machine operators	12	—	1 781	27	592	21	251	—	264	6	674	—
Fur, fish, and oyster operators, except food	7	—	6 160	213	2 469	144	377	12	219	9	3 095	48
Slaughtering and cutting machine operators	78	44	6 655	16	74	—	221	—	199	10	161	6
Monitors and precision machine operators	—	—	—	—	—	—	—	—	—	—	—	—
Photographic process machine operators	—	—	195	67	19	—	13	—	150	60	13	7
Miscellaneous machine operators, n.e.c.	95	47	—	—	—	—	—	—	—	—	—	—
Machine operators, not specified	180	72	—	—	—	—	—	—	—	—	—	—
Fabricators, assemblers, and hand working occupations	419	108	24 610	341	4 075	50	7 074	67	9 525	129	3 936	95
Welders and cutters	174	—	22 504	144	3 819	33	6 665	41	8 292	28	3 728	42
Solders and brazers	—	—	—	—	—	—	—	—	—	—	—	—
Assemblers	56	8	52	10	22	15	253	6	22	4	—	—
Hand cutting and trimming occupations	158	100	1 770	179	170	4	34	20	1 160	91	187	53
Hand molding, casting, and forming occupations	—	—	51	—	4	—	—	—	8	—	5	—
Hand painting, coating and decorating occupations	—	—	53	8	26	2	—	—	12	6	7	—
Hand engraving and printing occupations	—	—	27	—	14	—	2	—	11	—	—	—
Hand grinding and polishing occupations	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous hand working occupations	31	—	146	—	7	—	104	—	—	—	—	—
Production inspectors, testers, samplers, and weighers	86	43	5 275	299	732	100	1 045	52	2 996	64	502	83
Production inspectors, checkers, and examiners	13	8	3 084	78	189	19	439	13	2 196	21	264	25
Production testers	2	—	834	—	123	18	87	11	565	19	59	8
Production samplers and weighers	—	—	990	111	375	48	438	28	88	10	89	25
Graders and sorters, except agricultural	71	35	363	62	45	15	81	—	147	14	90	33
Transportation and material moving occupations	1 004	42	159 340	2 745	16 258	610	56 866	944	56 292	700	29 924	491
Motor vehicle operators	505	7	53 554	1 019	6 367	293	14 788	242	17 721	287	14 678	197
Supervisors, motor vehicle operators	—	—	—	—	—	—	—	—	—	—	—	—
Truck drivers, heavy	391	7	63	—	6 124	247	14 155	174	44	44	6	—
Truck drivers, light	79	7	50 385	848	128	23	353	30	16 153	230	13 953	197
Driver-sales workers	8	—	116	6	3	—	19	—	1 020	39	18	—
Bus drivers	—	—	154	25	34	6	101	19	76	17	—	—
Taxicab drivers and chauffeurs	27	—	673	33	57	17	113	5	365	11	138	2
Parking lot attendants	—	—	72	15	4	—	25	8	43	7	—	—
Motor transportation occupations, n.e.c.	—	—	29	—	17	—	9	—	—	—	—	—
Rail transportation occupations	7	—	7 219	281	1 574	57	3 324	76	1 612	3	709	145
Railroad conductors and yardmasters	—	—	1 272	179	179	33	582	49	135	—	376	97
Locomotive operating occupations	—	—	3 794	80	865	14	2 269	26	451	—	209	40
Railroad brake, signal, and switch operators	7	—	2 087	22	479	10	467	1	1 020	3	121	8
Rail vehicle operators, n.e.c.	—	—	66	—	51	—	6	—	—	—	3	—
Water transportation occupations	247	30	2 801	26	57	—	169	6	2 342	20	233	—
Ship captains and mates, except fishing boats	172	16	1 263	20	—	—	67	—	1 080	20	116	—
Sailors and deckhands	64	14	1 443	4	37	—	89	—	1 222	—	95	—
Marine engineers	11	—	63	—	10	—	7	—	31	—	15	—
Bridge, lock, and lighthouse tenders	—	—	32	2	10	—	6	—	—	—	7	—
Material moving equipment operators	245	5	95 766	1 419	8 260	260	38 585	620	34 617	390	14 304	149
Supervisors, material moving equipment operators	7	—	708	6	36	—	454	—	196	6	22	—
Operating engineers	54	—	14 927	155	1 919	54	6 787	54	2 010	11	4 211	36
Longshore equipment operators	—	—	—	—	—	—	—	—	—	—	—	—
Hoist and winch operators	53	2	17 940	142	953	24	894	17	15 748	101	345	—
Crane and tower operators	19	—	3 859	25	809	18	456	7	1 590	7	1 004	—
Excavating and loading machine operators	17	—	12 435	116	1 538	25	6 318	13	824	13	3 725	17
Grader, dozer, and scraper operators	5	—	12 032	53	801	11	8 558	13	1 201	11	4 472	18
Industrial truck and tractor equipment operators	28	—	6 061	169	918	78	2 258	37	7 799	37	2 086	46
Miscellaneous material moving equipment operators	62	3	27 800	753	1 286	50	12 860	467	12 245	204	1 409	32

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

	Agriculture, forestry, and fisheries—Con		Mining						Construction										
	Fishing, hunting, and trapping		Total		Metal mining		Coal mining				Crude petroleum and natural gas extraction		Nonmetallic mining and quarrying, except fuel						
	Total	Female	Total	Female	Total	Female	Total	Female			Total	Female	Total	Female					
Employed persons 16 years and over—Con																			
Operators, fabricators, and laborers—Con																			
Handlers, equipment cleaners, helpers, and laborers	2 521	977	63 496	2 805	10 254	846	22 335	963	20 086	667	10 821	329	703 884	21 017					
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	19	—	48	—	—	—	10	—	22	—	16	—	677	23					
Helpers, mechanics and repairers	—	—	948	32	263	2	276	10	264	7	145	13	2 697	83					
Helpers, construction and extractive occupations	20	5	20 791	1 250	3 585	369	10 052	514	4 863	258	2 291	109	79 127	2 451					
Helpers, construction trades	15	—	476	9	87	—	138	—	224	9	27	—	77 388	2 382					
Helpers, surveyor	5	5	1 521	43	465	7	234	3	810	33	12	—	1 739	69					
Helpers, extractive occupations	—	—	18 794	1 198	3 033	362	9 680	511	3 829	216	2 252	109	—	—					
Construction laborers	57	2	4 832	87	663	26	1 060	11	2 416	34	693	16	604 312	17 471					
Production helpers	43	33	1 124	48	165	2	225	5	639	39	95	2	5 454	238					
Freight, stock, and material handlers	240	21	11 173	265	942	70	3 929	49	3 065	88	3 237	58	7 576	257					
Garbage collectors	—	—	19	6	2	—	9	—	6	—	2	—	752	11					
Stevedores	24	—	44	—	5	—	23	—	12	—	4	—	48	—					
Stock handlers and bidders	9	—	253	41	9	2	26	—	85	33	133	6	1 246	121					
Machine feeders and offbearers	61	21	2 165	30	74	13	183	2	1 776	13	132	2	334	23					
Freight, stock, and material handlers, n.e.c.	146	—	8 692	188	852	55	3 688	47	1 186	36	2 966	50	5 196	102					
Gange and service station related occupations	15	—	417	1	99	—	128	—	136	1	54	—	1 946	82					
Vehicle washers and equipment cleaners	37	18	719	18	125	2	204	7	269	7	121	2	1 026	77					
Hand packers and packagers	401	275	665	79	80	14	64	24	82	3	439	38	1 069	335					
Laborers, except construction	1 689	623	22 779	1 025	4 332	361	6 387	343	8 330	230	3 730	91	—	—					

Employed persons 16 years and over—Con

Operators, fabricators, and laborers—Con
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors; handlers, equipment cleaners, and laborers,
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stevedores
 Stock handlers and baggers
 Machine feeders and offbearers
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Manufacturing, nondurable goods															
	Manufacturing, total				Food and kindred products											
	Total				Meat products		Dairy products		Canned and preserved fruits and vegetables		Grain mill products		Bakery products		Sugar and confectionery products	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	21 914 754	6 995 805	8 435 543	3 493 250	323 060	104 667	150 671	33 531	199 418	83 942	144 974	30 830	192 167	58 609	103 997	39 321
Managerial and professional specialty occupations	3 181 630	549 632	1 162 070	280 043	23 427	3 215	16 877	2 509	20 340	3 928	21 961	3 269	15 053	2 473	11 073	2 194
Executive, administrative, and managerial occupations	1 893 173	331 156	731 864	146 559	20 671	2 582	14 915	2 049	16 882	3 054	17 938	2 410	13 267	2 151	8 754	1 692
Legislators, chief executives, and general administrators																
Public administration																
Administrators and officials, public administration																
Federal																
State																
Local																
Administrators, protective services	114	19	42	5					18							
Financial managers	74 405	13 029	29 317	5 696	869	93	674	61	785	136	622	55	367	44	463	82
Personnel and labor relations managers	58 782	14 793	21 242	6 132	664	189	296	94	560	183	405	86	404	119	281	76
Purchasing managers	24 445	2 829	5 926	676	176	2	115	15	249	23	127	24	94	23	72	112
Managers, marketing, advertising, and public relations	206 518	24 008	95 058	14 401	1 573	54	1 351	101	1 604	153	2 069	248	1 894	131	1 011	112
Administrators, education and related fields	1 484	312	519	195	14	8	8						6		13	
Managers, medicine and health																
Managers, properties and real estate																
Managers, proprietors and real estate	1 761	227	672	57	6		7		13		23		6		7	
Postmasters and mail superintendents																
Funeral directors	194	35	80	7					7				2			
Managers and administrators, n.e.c.	1 095 832	142 419	436 340	71 589	11 706	1 132	9 320	895	9 754	1 379	11 046	942	8 384	1 107	5 108	814
Salaried	1 028 650	130 520	406 643	64 337	10 524	976	8 565	788	9 531	1 363	10 448	880	7 612	949	4 773	737
Self-employed	67 182	11 899	29 697	7 252	1 182	156	755	107	723	16	598	62	772	158	335	77
Management related occupations	429 638	133 485	142 668	47 801	5 663	1 104	3 144	883	3 892	1 180	3 646	1 055	2 110	719	1 799	608
Accountants and auditors	197 529	67 065	71 065	25 203	2 000	642	1 805	650	1 722	668	1 721	615	1 130	470	927	341
Underwriters	157	83	71	42			18	18	8							
Other financial officers	18 729	5 014	5 664	1 722	113	14	35	9	128	24	125	32	59	15	62	20
Management analysts	12 508	2 658	4 241	1 146	72	7	44	6	76	15	85	29	46	15	41	
Personnel, training, and labor relations specialists	80 805	26 239	27 479	9 696	704	128	401	111	711	251	474	124	377	107	323	108
Purchasing agents and buyers, farm products	2 981	117	2 981	117	1 553	33	439	6	417	13	384	50	10		18	
Buyers, wholesale and retail trade except farm products																
Purchasing agents and buyers, n.e.c.	105 604	29 284	26 151	8 003	982	135	338	64	755	153	778	174	410	102	368	116
Business and promotion agents	1 436	396	855	304	2	2	13	6			9		5		7	
Construction inspectors	559	71	167	23			37	9	68	49	25	6	47	6		
Inspectors and compliance officers, except construction	6 008	1 476	2 786	1 023	270	143	37	9			32	25	6			
Management related occupations, n.e.c.	3 322	1 082	1 208	522	17		14	4	7	7			6			
Professional specialty occupations	1 288 457	218 476	430 206	133 484	2 756	633	1 962	460	3 458	874	4 023	859	1 786	322	2 319	502
Engineers, architects, and surveyors	722 904	32 160	114 297	7 402	1 413	89	815	45	1 488	90	1 664	156	942	35	983	52
Architects	1 716	126	473	22	22		5		2						16	
Engineers	720 749	32 012	113 691	7 378	1 391	89	810	45	1 486	90	1 664	156	942	35	961	52
Aerospace engineers	77 023	2 433	156	26	10							6			6	
Metallurgical and materials engineers	19 105	814	726	38												
Mining engineers	402	15	133													
Petroleum engineers	1 728	102	467	88												
Chemical engineers	45 474	2 400	1 763	179	4		33	6	51	11	139	15	18		48	2
Nuclear engineers	2 511	83	309	32			26		66	6	97	18	101	9	38	
Civil engineers	12 596	456	3 384	179	143											
Agricultural engineers	2 619	71	86						9		9				7	
Electrical and electronic engineers	163 638	4 870	5 421	143	56		40		6		111	12	52		57	
Industrial engineers	152 975	14 708	25 985	4 115	350	82	199	31	571	61	308	77	128	26	283	43
Mechanical engineers	147 813	2 795	13 737	2 115	350		328		302		300	5	462		171	
Marine engineers and naval architects	3 455	42	165	2	5						6					
Engineers, n.e.c.	91 210	3 463	22 078	777	253	7	184	8	393	12	686	23	181		351	7
Surveyors and mapping scientists	439	22	133	2											6	
Mathematical and computer scientists	99 219	19 487	18 844	4 775	191	54	134	36	322	87	308	104	160	49	169	27
Computer systems analysts and scientists	65 606	11 459	11 170	2 394	98	14	100	26	225	27	193	64	106	25	98	5
Operations and systems researchers and analysts	26 354	5 248	5 543	1 286	69	40	17		65	34	96	28	38	19	43	
Actuaries	155	49	63	23												
Statisticians	5 499	2 512	1 942	1 027	24		17	10	32	26	14	7	16		28	
Mathematical scientists, n.e.c.	1 605	219	126	45												

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Manufacturing, nondurable goods											
	Manufacturing, total						Food and kindred products					
	Total		Female		Total		Female		Total		Female	
	Total	Female	Total	Female	Meat products	Dairy products	Canned and preserved fruits and vegetables	Grain mill products	Bakery products	Sugar and confectionery products	Total	Female
Employed persons 16 years and over—Con												
Managerial and professional specialty occupations—Con												
Professional specialty occupations—Con												
Natural scientists	80 450	14 493	55 205	10 762	327	104	437	158	293	932	237	11
Physicists and astronomers	4 275	211	621	67	146	29	3	41	101	604	120	11
Chemists, except biochemists	59 234	10 293	43 357	7 491	176	—	6	6	—	8	—	—
Atmospheric and space scientists	788	185	176	72	124	—	—	—	—	2	—	—
Geologists and geodesists	1 261	124	786	86	—	—	—	—	—	—	—	—
Physical scientists, n.e.c.	740	136	385	88	—	—	6	13	—	—	—	—
Agricultural and food scientists	2 173	593	1 952	542	114	35	120	52	88	195	74	30
Biological and life scientists	6 153	2 355	4 814	1 761	43	22	115	53	60	106	22	23
Forestry and conservation scientists	3 851	1 349	1 761	34	—	—	8	—	—	—	—	—
Medical scientists	1 975	665	1 765	621	24	18	22	6	44	17	13	22
Health diagnosing occupations	3 054	401	1 758	215	102	6	14	—	6	48	4	13
Physicians	2 036	238	1 151	121	14	10	10	—	24	5	5	6
Dentists	274	45	86	26	—	—	4	—	—	—	—	—
Veterinarians	477	44	437	24	82	—	4	—	4	37	—	8
Optometrists	64	—	—	—	—	—	—	—	—	—	—	—
Podiatrists	91	48	32	26	—	—	—	—	—	—	—	—
Health diagnosing practitioners, n.e.c.	90	26	72	18	6	6	—	—	—	4	4	—
Health assessment and treating occupations	17 823	15 483	6 904	5 360	340	276	78	51	171	268	96	114
Registered nurses	15 582	14 770	5 323	4 936	275	268	33	33	142	71	97	81
Pharmacists	937	218	865	185	—	—	—	—	—	—	—	75
Dietitians	668	280	506	186	59	2	33	12	29	25	17	6
Therapists	340	123	123	26	—	—	—	—	—	—	—	—
Physicians' assistants	296	80	87	27	6	6	—	6	—	—	—	—
Teachers, postsecondary	1 483	542	653	335	16	16	6	—	5	—	11	8
Teachers, except postsecondary	15 802	5 694	4 979	3 186	38	26	50	30	70	48	42	14
Teachers, prekindergarten and kindergarten	96	22	49	17	—	—	—	—	—	—	—	—
Teachers, elementary and secondary school	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, special education	430	220	45	13	—	—	—	—	—	—	—	—
Teachers, n.e.c.	15 276	5 452	4 885	3 156	38	26	50	30	70	48	42	14
Counselors, educational and vocational	932	355	345	166	—	—	—	—	—	—	—	—
Librarians, archivists, and curators	4 266	3 324	2 060	1 595	—	—	9	4	14	30	16	6
Librarians	4 060	3 203	1 944	1 509	—	—	9	4	14	23	16	6
Archivists and curators	206	121	116	86	—	—	—	—	—	7	—	—
Social scientists and urban planners	29 137	7 272	10 230	3 134	67	13	116	35	188	194	56	28
Economists	28 180	7 055	9 878	3 011	67	13	116	35	188	194	56	28
Psychologists	586	124	151	54	—	—	—	—	—	—	—	—
Sociologists	30	7	6	—	—	—	—	—	—	—	—	—
Social scientists, n.e.c.	206	73	149	60	—	—	—	—	—	—	—	—
Urban planners	113	3	—	—	—	—	—	—	—	—	—	—
Social, recreation, and religious workers	1 746	591	982	279	35	7	12	—	8	5	19	2
Social workers	770	351	336	120	17	7	7	—	—	—	6	2
Recreation workers	287	113	117	55	—	—	6	—	2	—	—	2
Clergy	539	89	454	80	18	—	—	—	6	5	19	6
Religious workers, n.e.c.	150	37	75	24	—	—	—	—	—	—	—	—
Lawyers and judges	11 756	1 394	5 268	732	46	6	89	7	71	111	23	16
Lawyers	11 756	1 394	5 268	732	46	6	89	7	71	111	23	16
Judges	—	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	299 885	117 081	208 681	95 543	181	36	201	94	85	415	125	56
Authors	4 097	1 835	3 479	1 629	—	—	7	7	—	8	—	121
Technical writers	20 516	5 459	5 372	2 415	5	—	6	30	6	6	7	7
Designers	80 264	24 468	34 302	16 937	11	—	81	30	28	176	15	36
Musicians and composers	1 505	400	982	300	—	—	7	—	7	—	—	161
Actors and directors	874	214	217	78	—	—	—	—	—	17	9	—
Painters, sculptors, craft-artists, and artist printmakers	36 137	17 196	24 716	12 804	26	—	19	17	3	39	23	2
Photographers	14 050	2 688	10 838	2 168	10	—	23	10	2	20	15	5
Dancers	71	47	49	28	11	—	—	10	—	—	—	—
Artists, performers, and related workers, n.e.c.	2 608	1 328	1 718	918	—	—	—	—	—	6	1	—
Editors and reporters	122 394	56 818	117 776	54 491	18	5	11	11	9	—	—	—
Public relations specialists	16 803	6 503	8 985	3 693	100	20	72	19	98	33	26	7
Announcers	157	63	83	48	—	—	—	—	40	110	40	10
Athletes	405	62	164	34	—	—	—	—	2	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Manufacturing, total										Food and kindred products																													
	Manufacturing, total					Total					Meat products					Dairy products					Canned and preserved fruits and vegetables					Grain mill products					Bakery products					Sugar and confectionery products				
	Total	Female	Total	Female	Total	Total	Female	Total	Female	Total	Total	Female	Total	Female	Total	Total	Female	Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female			
Employed persons 16 years and over—Con.																																								
Technical, sales, and administrative support occupations																																								
Technicians and related support occupations																																								
Health technologists and technicians																																								
Clinical laboratory technologists and technicians																																								
Dental hygienists																																								
Health record technologists and technicians																																								
Radiologic technicians																																								
Licensed practical nurses																																								
Health technologists and technicians, n.e.c.																																								
Engineering and related technologists and technicians																																								
Electrical and electronic technicians																																								
Mechanical engineering technicians																																								
Mechanical engineering technicians																																								
Engineering technicians, n.e.c.																																								
Drafting occupations																																								
Surveying and mapping technicians																																								
Science technicians																																								
Biological technicians																																								
Chemical technicians																																								
Science technicians, n.e.c.																																								
Technicians, except health, engineering, and science																																								
Airplane pilots and navigators																																								
Air traffic controllers																																								
Broadcast equipment operators																																								
Computer programmers																																								
Tool programmers, numerical control																																								
Legal assistants																																								
Technicians, n.e.c.																																								
Sales occupations																																								
Supervisors and proprietors, sales occupations																																								
Salaried																																								
Self-employed																																								
Sales representatives, finance and business services																																								
Insurance sales occupations																																								
Real estate sales occupations																																								
Securities and financial services sales occupations																																								
Advertising and related sales occupations																																								
Sales occupations, other business services																																								
Sales representatives, commodities, except retail																																								
Sales engineers																																								
Wholesale																																								
Sales workers, retail and personal services																																								
Sales workers, commodities																																								
Sales counter clerks																																								
Cashiers																																								
Street and door-to-door sales workers																																								
News vendors																																								
Sales related occupations																																								
Demonstrators, promoters and models, sales																																								
Auctioneers																																								
Sales support occupations, n.e.c.																																								
Administrative support occupations, including clerical																																								
Supervisors, administrative support occupations																																								
Supervisors, general office																																								
Supervisors, computer equipment operators																																								
Supervisors, noncomputer record processing																																								
Chief clerks, noncomputer operators																																								
Sales clerks, distribution, scheduling, and adjusting clerks																																								
Computer equipment operators																																								
Computer operators																																								
Peripheral equipment operators																																								

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Manufacturing, nondurable goods																
	Manufacturing, total					Food and kindred products											
	Total					Meat products		Dairy products		Canned and preserved fruits and vegetables		Grain mill products		Bakery products		Sugar and confectionery products	
	Total	Female	Total	Female	Total	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations—Con.	683 771	674 685	263 846	259 906	4 599	4 552	3 654	3 676	3 654	5 118	5 079	5 752	5 704	2 780	2 717	2 625	2 598
Administrative support occupations, including clerical—Con.	589 530	583 093	222 137	219 569	4 329	4 285	3 430	3 452	3 430	4 735	4 708	5 339	5 293	2 547	2 486	2 359	2 322
Secretaries, stenographers, and typists	6 915	6 709	2 619	2 500	28	28	20	20	20	33	33	15	15	9	9	6	6
Stenographers	87 326	84 883	39 090	37 837	242	239	204	204	204	350	338	398	396	224	222	398	260
Typists	57 482	52 458	27 911	25 578	454	408	388	419	388	471	408	383	336	271	264	217	209
Information clerks	6 844	6 608	4 001	3 759	61	40	23	29	23	64	56	30	30	6	6	36	36
Interviewers	2 119	917	921	435	11	—	—	13	—	46	—	58	35	6	6	23	15
Hotel clerks	42 116	41 242	19 514	19 134	365	358	317	327	317	330	330	245	235	6	242	153	153
Receptionists	6 403	4 691	3 475	2 750	17	10	48	50	48	31	22	52	38	15	10	5	5
Information clerks, n.e.c.	167 159	114 270	75 228	55 733	1 460	785	625	1 047	625	1 704	1 413	1 039	616	966	704	737	574
Records processing occupations, except financial	7 893	6 482	7 122	6 010	15	6	16	23	16	3	3	10	10	—	—	5	5
Classified-ad clerks	4 884	3 591	1 970	1 636	27	27	27	27	27	23	23	5	5	—	—	27	27
Correspondence clerks	64 806	42 179	27 889	20 053	522	251	383	596	383	415	291	359	234	609	467	283	182
Order clerks	13 029	11 655	4 447	4 240	175	167	73	73	73	255	248	85	84	50	45	115	110
Personnel clerks, except payroll and timekeeping	2 546	2 033	1 919	1 507	—	—	—	—	—	8	6	9	9	—	—	9	—
Library clerks	65 844	42 334	26 679	18 420	731	354	119	321	119	976	822	559	262	301	192	273	222
File clerks	8 157	5 966	5 202	3 867	12	2	7	7	7	24	20	12	12	6	—	34	28
Records clerks	366 431	315 288	159 140	140 833	5 313	4 469	4 566	5 059	4 566	3 719	3 493	3 746	3 221	2 723	2 472	1 707	1 344
Financial records processing occupations	268 139	235 791	118 020	104 983	4 038	3 428	3 894	4 316	3 894	2 629	2 453	3 189	2 771	2 304	2 172	1 212	916
Bookkeepers, accounting, and auditing clerks	53 460	43 861	18 728	17 780	700	568	351	382	351	775	768	206	182	464	410	318	318
Payroll and timekeeping clerks	28 877	25 689	14 254	12 806	397	327	223	223	207	175	170	213	191	234	203	89	80
Billing clerks	12 034	7 007	4 329	2 919	125	98	60	77	60	72	63	101	53	49	25	22	17
Cost and rate clerks	3 921	2 940	1 702	1 397	53	48	54	61	54	44	39	37	24	64	64	23	13
Billing, posting, and calculating machine operators	12 985	7 980	6 814	3 967	13	7	14	44	14	40	24	80	63	30	23	21	21
Duplicating, mail, and other office machine operators	5 029	2 945	2 095	1 131	—	—	—	11	21	14	14	21	11	13	13	—	—
Duplicating machine operators	2 864	1 705	2 408	1 419	—	—	8	12	8	8	10	16	16	—	—	5	5
Mail preparing and paper handling machine operators	5 092	3 330	2 311	1 417	13	7	12	21	6	18	10	43	36	17	10	16	16
Office machine operators, n.e.c.	19 720	17 845	8 363	7 545	242	219	199	199	199	139	132	128	104	120	115	151	105
Communications equipment operators	19 028	17 558	8 139	7 435	242	219	178	178	178	133	126	128	104	120	115	119	105
Telephone operators	511	219	184	89	—	—	21	21	21	6	6	—	—	—	—	32	—
Telegraphers	181	68	40	21	—	—	—	—	—	—	—	—	—	—	—	—	—
Communications equipment operators, n.e.c.	49 356	19 116	33 288	11 662	233	118	92	200	92	239	110	306	165	132	7	210	103
Mail and message distributing occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Postal clerks, except mail carriers	39 662	16 581	26 661	10 021	—	—	—	150	73	209	108	255	145	117	7	182	90
Mail carriers, except postal service	9 694	2 535	6 627	1 641	92	49	19	50	19	30	22	51	20	15	—	28	13
Mail clerks, except postal service	660 827	199 258	216 330	71 552	8 974	3 021	3 770	875	875	4 933	2 221	3 228	883	6 080	1 097	2 742	734
Material recording, scheduling, and distributing clerks	7 684	2 218	2 688	781	164	35	72	23	23	79	24	105	105	19	13	13	—
Dispatchers	140 349	52 461	37 777	17 430	589	168	579	229	229	459	250	418	168	666	314	294	122
Production coordinators	239 507	51 212	100 396	22 949	2 960	1 80	1 839	180	180	1 547	420	228	3 721	305	214	214	214
Traffic, shipping, and receiving clerks	193 594	61 694	50 076	17 444	1 270	273	904	254	254	1 608	696	849	257	807	248	908	235
Stock and inventory clerks	27 092	9 875	15 938	7 173	3 915	2 203	315	158	158	1 164	762	685	161	790	204	240	139
Meter readers	800	409	534	280	12	—	3	2	2	2	2	11	52	2	2	—	—
Weights, measurers, and checkers	47 019	18 854	7 578	4 443	23	6	25	52	25	49	42	74	52	46	12	37	18
Samplers	37 984	20 729	15 718	9 807	213	41	16	6	6	25	25	7	7	29	12	103	6
Expeditors	4 782	2 535	1 343	852	41	6	6	6	6	25	25	7	7	29	12	103	6
Material recording, scheduling, and distributing clerks, n.e.c.	37 984	20 729	15 718	9 807	213	41	165	89	89	264	191	186	93	134	76	103	54
Adjusters and investigators	31 560	16 535	12 218	7 472	169	110	145	145	73	228	155	185	93	100	48	86	49
Insurance adjusters, examiners, and investigators	300	240	179	151	—	—	—	—	—	19	19	17	—	23	23	6	—
Investigators and adjusters, except insurance	6 124	3 954	3 321	2 184	44	20	20	20	16	17	17	1	—	11	5	6	5
Eligibility clerks, social welfare	416 689	321 164	180 288	145 244	3 338	2 615	2 824	2 390	2 390	2 549	2 117	2 593	2 079	3 293	2 883	1 698	1 343
Bill and account collectors	233 248	186 797	100 214	83 731	2 341	1 843	2 030	1 734	1 734	1 554	1 309	1 592	1 271	2 544	2 221	1 130	856
Miscellaneous administrative support occupations	16 515	13 013	15 698	12 369	—	—	—	—	—	—	—	—	—	—	—	—	—
General office clerks	233 248	186 797	100 214	83 731	2 341	1 843	2 030	1 734	1 734	1 554	1 309	1 592	1 271	2 544	2 221	1 130	856
Bank tellers	—	—	—	—	—	—	—	—	—	2	2	14	14	—	—	9	—
Proofreaders	16 515	13 013	15 698	12 369	—	—	—	—	—	—	—	—	—	—	—	—	—
Data-entry keyers	86 381	80 602	33 242	30 551	679	659	541	576	541	554	530	588	548	541	527	354	349
Statistical clerks	22 487	14 331	8 592	5 854	82	37	58	58	44	118	95	130	95	68	62	94	66
Teachers' aides	57 680	26 174	22 389	12 624	236	76	160	71	71	314	181	267	146	128	8	111	72
Administrative support occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Manufacturing, total										Food and kindred products										Sugar and confectionery products																			
	Manufacturing, total					Total					Meat products					Dairy products					Canned and preserved fruits and vegetables					Grain mill products					Bakery products					Total				
	Total	Female	Total	Female	Total	Total	Female	Total	Female	Total	Total	Female	Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female								
Employed persons 16 years and over—Con.																																								
Service occupations	493 917	86 739	216 431	43 310	14 979	2 385	5 231	1 065	10 723	2 709	6 669	1 268	9 139	2 225	5 143	964																								
Private household occupations	97 126	6 881	32 713	2 201	1 516	100	302	8	1 144	56	460	18	306	—	791	39																								
Protective service occupations	4 081	183	996	37	37	—	7	—	17	—	—	—	15	—	22	—																								
Supervisors, protective service occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																								
Supervisors, firefighting and fire prevention occupations	468	—	103	—	—	—	—	—	—	—	—	—	—	—	—	—																								
Supervisors, police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																								
Supervisors, guards	3 613	183	893	37	37	—	7	—	17	—	—	—	15	—	22	—																								
Supervisors, fire-fighting occupations	4 334	159	1 148	24	7	6	—	—	16	—	—	—	16	—	22	—																								
Firefighting and fire prevention occupations	2 058	93	627	16	7	6	—	—	16	—	—	—	7	—	42	—																								
Freighting occupations	2 276	66	521	8	—	—	—	—	—	—	—	—	—	—	10	—																								
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																								
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																								
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																								
Correctional institution officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																								
Guards	88 711	6 539	30 569	2 140	1 472	94	295	8	1 111	56	412	18	284	—	717	39																								
Crossing guards	121	11	48	9	—	—	—	—	—	—	—	—	—	—	—	—																								
Guards and police, except public service	88 348	6 479	30 389	2 096	1 455	94	288	8	1 102	56	412	18	284	—	699	33																								
Protective service occupations, n.e.c.	242	49	132	35	17	—	7	—	9	—	—	—	—	—	18	6																								
Service occupations, except protective and household	396 791	79 858	183 718	41 109	13 463	2 285	4 929	1 057	9 579	2 653	6 209	1 250	8 833	2 225	4 352	925																								
Food preparation and service occupations	32 852	19 055	21 528	11 426	1 805	882	984	534	2 786	1 008	744	410	2 312	1 259	990	333																								
Supervisors, food preparation and service occupations	1 703	779	1 108	503	92	46	14	6	118	31	30	21	144	57	56	25																								
Bartenders	391	94	261	64	5	—	—	—	15	—	—	—	—	—	—	—																								
Waiters and waitresses	3 305	2 730	1 971	1 649	66	66	289	225	55	40	88	78	443	438	45	45																								
Cooks, except short order	13 835	6 443	10 109	4 109	989	313	391	138	1 745	501	436	192	668	279	687	140																								
Short-order cooks	350	177	226	122	31	19	24	82	48	23	—	—	191	186	9	8																								
Food counter, fountain and related occupations	1 144	855	780	628	47	24	126	82	173	138	22	14	47	26	15	10																								
Kitchen workers, food preparation	1 914	1 356	1 325	929	48	37	17	—	56	16	17	17	61	36	7	7																								
Waters and waitresses' assistants	1 871	1 334	778	492	28	21	774	29	56	16	17	17	61	36	7	7																								
Miscellaneous food preparation occupations	8 339	5 287	4 970	2 930	499	356	101	54	109	95	14	5	83	53	14	6																								
Health service occupations	3 864	2 773	1 599	1 225	134	116	11	9	134	11	14	5	83	53	14	6																								
Dental assistants	163	124	42	33	—	—	—	—	—	—	—	—	—	—	—	—																								
Nursing aides, except nursing	711	334	411	222	14	8	2	7	22	18	4	—	48	18	6	6																								
Nursing aides, orderlies, and attendants	2 990	2 315	1 146	970	120	108	2	2	80	70	10	5	35	35	8	—																								
Cleaning and building service occupations, except household	350 771	53 044	155 497	25 301	11 357	1 193	3 902	496	6 614	1 516	5 296	770	6 346	841	3 269	534																								
Supervisors, cleaning and building service workers	6 387	321	3 055	221	321	18	54	3	79	—	109	21	140	9	61	9																								
Maid and housemen	21 592	6 851	10 186	3 623	576	86	216	86	364	92	263	67	507	121	256	44																								
Janitors and cleaners	318 986	45 310	139 649	21 154	10 274	1 087	3 618	407	6 107	1 404	4 550	680	5 627	720	2 768	468																								
Elevator operators	3 277	355	2 160	244	159	6	2	—	35	6	262	2	13	—	114	7																								
Pest control occupations	529	76	447	59	27	—	12	—	29	14	112	—	59	—	70	6																								
Personal service occupations	9 304	4 986	5 094	3 157	167	94	32	18	70	34	155	65	92	72	79	52																								
Supervisors, personal service occupations	514	98	284	72	17	9	2	—	—	—	46	—	11	6	—	—																								
Barbers	178	77	79	44	6	6	—	—	—	—	—	—	—	—	—	—																								
Hairdressers and cosmetologists	843	671	628	519	44	—	—	—	—	—	—	—	—	—	—	—																								
Attendants, amusement and recreation facilities	1 349	436	756	236	8	—	8	—	10	13	16	14	9	9	32	—																								
Guides	1 221	541	771	403	14	—	—	—	13	—	—	—	—	—	—	—																								
Ushers	256	48	34	6	3	—	—	—	13	—	—	—	—	—	—	—																								
Public transportation attendants	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																								
Baggage porters and bellhops	86	28	55	22	—	—	—	—	—	—	—	—	—	—	—	—																								
Welfare service aides	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																								
Child care workers, except private household	604	364	234	176	9	9	2	—	4	4	9	—	15	—	—	—																								
Personal service occupations, n.e.c.	4 253	2 723	2 253	1 679	110	70	20	18	30	17	75	46	57	42	42	20																								

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Manufacturing, nondurable goods																	
	Manufacturing, total					Food and kindred products												
	Total		Female	Total		Female	Meat products		Dairy products		Canned and preserved fruits and vegetables		Grain mill products		Bakery products		Sugar and confectionery products	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con																		
Farming, forestry, and fishing occupations—Con.																		
Forestry and logging occupations—Con.	91 675	2 122	1 768	267	—	—	26	—	21	5	30	13	31	—	—	—	19	—
Supervisors, forestry and logging workers	5 355	38	50	7	—	—	—	—	16	—	30	13	27	—	—	—	18	—
Timber cutting and logging occupations	1 530	285	471	135	—	—	26	—	5	—	—	—	4	—	—	—	1	—
Fishers, hunters, and trappers	84 790	1 799	1 247	125	—	—	8	8	5	—	15	—	8	—	—	—	2	—
Captains and other officers, fishing vessels	1 159	129	458	71	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fishers	242	13	87	5	—	—	6	—	—	—	15	—	—	—	—	—	—	—
Hunters and trappers	453	68	287	57	2	2	2	2	—	—	—	—	—	—	—	—	—	—
Hunters and trappers	464	48	84	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Precision production, craft, and repair occupations																		
Mechanics and repairers	4 127 970	520 644	1 298 156	204 526	95 776	20 547	24 129	33 675	5 501	1 840	20 143	964	51 843	9 401	21 933	3 637	149	—
Supervisors, mechanics and repairers	959 494	49 974	298 607	11 962	8 052	83	5 570	11 732	257	37	6 238	101	7 125	138	6 368	149	—	—
Mechanics and repairers, except supervisors	21 124	1 124	7 072	153	149	—	138	303	14	—	303	131	163	—	207	—	—	—
Vehicle and mobile equipment mechanics and repairers	908 570	49 450	291 535	11 829	7 903	72	5 432	11 429	243	37	6 075	101	6 994	138	6 161	149	—	—
Automobile mechanics	135 793	5 142	20 211	389	1 198	7	1 423	1 106	13	9	668	10	4 484	10	846	17	—	—
Bus, truck, and stationary engine mechanics	61 084	2 288	11 820	220	1 778	—	987	358	13	9	389	422	1 132	10	422	—	—	—
Aircraft engine mechanics	15 741	166	2 744	263	263	—	279	137	—	—	22	6	274	—	125	—	—	—
Aircraft mechanics	17 097	843	3 955	6	16	—	3	4	—	—	16	—	5	—	6	—	—	—
Small engine repairers	4 037	193	1 112	34	28	—	26	18	—	—	18	—	21	—	13	—	—	—
Automobile body and related repairers	8 641	201	1 038	26	94	7	39	310	—	—	78	—	14	—	23	—	—	—
Aircraft mechanics, except engine	20 613	265	3 928	94	94	—	87	71	—	—	64	—	32	—	175	—	—	—
Heavy equipment mechanics	3 227	145	562	9	19	—	—	—	—	—	—	—	—	—	82	—	—	—
Farm equipment mechanics	3 227	145	562	9	19	—	—	—	—	—	—	—	—	—	82	—	—	—
Industrial machinery repairers																		
Machinery maintenance occupations	322 548	11 142	154 664	5 605	3 519	34	2 180	5 664	104	20	2 297	54	4 012	105	2 800	71	—	—
Electrical and electronic equipment repairers	20 538	1 011	7 872	501	117	—	69	183	27	4	406	30	104	132	406	132	—	—
Electronic repairers, communications and industrial equipment	75 181	11 272	4 664	394	85	—	31	90	—	—	60	4	35	11	45	8	—	—
Electronic repairers	23 100	3 120	2 175	67	23	—	12	57	—	—	26	—	10	—	32	—	—	—
Data processing equipment repairers	15 777	1 620	867	95	20	—	10	2	—	—	2	—	—	—	—	—	—	—
Household appliance and power tool repairers	5 108	691	384	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Telephone line installers and repairers	362	114	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Telephone installers and repairers	20 602	3 686	476	84	22	—	2	5	—	—	16	4	8	—	8	—	—	—
Miscellaneous electrical and electronic equipment repairers	10 232	2 041	752	98	20	—	—	20	—	—	16	—	17	11	5	—	—	—
Heating, air conditioning, and refrigeration mechanics	15 836	331	4 048	42	332	2	495	239	—	—	43	—	56	—	39	—	—	—
Miscellaneous mechanics and repairers	338 674	20 552	100 076	4 898	2 652	29	1 234	4 147	99	4	2 601	13	1 303	12	2 299	53	—	—
Camera, watch, and musical instrument repairers	9 091	1 932	2 342	180	—	—	—	11	—	—	18	—	—	—	42	—	—	—
Locksmiths and safe repairers	1 258	234	85	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office machine repairers	4 385	541	303	21	—	—	24	6	—	—	2	—	—	—	10	—	—	—
Mechanical controls and valve repairers	2 792	294	523	12	4	—	24	9	—	—	10	—	15	—	4	—	—	—
Elevator installers and repairers	3 448	77	456	6	22	—	78	14	—	—	29	—	15	—	5	—	—	—
Millwrights	101 356	3 523	20 461	491	266	—	—	289	44	—	1 090	179	76	—	7	—	—	—
Specified mechanics and repairers, n.e.c.	118 492	8 779	37 186	2 667	980	20	443	2 584	44	4	522	2	506	6	965	8	—	—
Not specified mechanics and repairers	97 852	5 172	38 720	1 499	1 380	9	681	2 234	55	—	930	11	706	6	1 094	38	—	—
Construction trades—Con																		
Supervisors, construction occupations	461 957	20 048	106 742	2 985	1 917	44	832	2 217	57	10	1 845	4	1 053	29	1 833	33	—	—
Supervisors, brickmasons, stonemasons, and tile setters	21 492	748	6 178	424	153	7	44	129	7	8	117	4	77	—	148	—	—	—
Supervisors, carpenters and related workers	227	9	16	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, electricians and power transmission installers	2 009	36	261	28	—	—	2	10	3	2	18	—	6	—	4	—	—	—
Supervisors, painters, paperhangers, and plasterers	7 148	211	2 003	32	25	—	7	80	4	2	18	—	13	—	68	—	—	—
Supervisors, plumbers, pipefitters, and steamfitters	665	10	30	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, n.e.c.	1 585	5	235	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors	9 858	477	3 633	347	128	7	35	39	—	6	81	—	49	—	75	—	—	—
Construction trades, except supervisors	440 465	19 300	100 564	2 561	1 764	37	788	2 088	50	2	1 728	4	976	29	1 685	33	—	—
Brickmasons and stonemasons	13 669	601	1 388	73	23	—	29	18	—	—	19	—	15	—	14	—	—	—
Tile setters, hard and soft	765	106	1 90	33	5	—	—	—	—	—	—	—	—	—	—	—	—	—
Carpet installers	2 239	329	1 017	108	3	—	—	—	—	—	—	—	—	—	—	—	—	—
Carpenters	85 210	3 299	12 181	340	245	—	150	230	2	—	109	—	97	7	209	7	—	—
Drywall installers	1 269	190	209	50	944	—	426	—	—	—	944	—	—	—	—	—	—	—
Electricians	165 928	5 874	43 485	394	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Electrical power installers and repairers	1 206	239	167	27	—	—	7	358	28	—	944	4	569	12	1 026	5	—	—
Painters, construction and maintenance	35 671	4 212	7 597	820	156	10	114	145	3	2	149	—	5	—	76	—	—	—
Paperhangers	291	35	102	12	5	—	—	—	—	—	9	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Manufacturing, nondurable goods															
	Food and kindred products															
	Total		Meat products		Dairy products		Canned and preserved fruits and vegetables		Grain mill products		Bakery products		Sugar and confectionery products			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
Employed persons 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Construction trades—Con.																
Construction trades, except supervisors—Con.																
Plasterers	437	92	126	27	338	9	60	—	270	1	441	—	—	100	—	
Plumbers, pipefitters, and steamfitters	87 249	1 706	27 856	319	15	—	—	—	10	—	3	—	—	—	309	8
Concrete and terrazzo finishers	1 389	49	171	18	—	—	—	—	32	14	—	—	—	—	3	—
Glaziers	3 414	684	135	23	—	—	—	—	—	—	—	—	—	—	—	—
Insulation workers	8 198	685	3 276	72	—	—	—	—	12	—	6	—	—	5	16	—
Paving, surfacing, and tamping equipment operators	255	48	27	2	3	—	—	—	—	—	—	—	—	—	—	—
Roofers	1 186	29	239	23	—	—	—	—	—	—	—	—	—	7	4	—
Sheetmetal duct installers	228	268	22	22	—	—	—	—	—	—	29	—	—	11	—	—
Structural metal workers	16 972	342	456	32	11	7	—	—	2	—	—	—	—	—	8	—
Drillers, earth	877	185	38	15	—	—	—	—	—	—	—	—	—	—	—	—
Construction trades, n.e.c.	8 032	489	1 966	151	14	11	—	—	6	—	8	—	—	17	6	—
Extrusive occupations	5 643	596	2 566	296	14	—	—	—	15	—	2	—	—	6	23	—
Supervisors, extractive occupations	455	39	257	39	—	—	—	—	7	—	—	—	—	—	—	—
Drillers, oil well	2 088	46	278	34	1	—	—	—	—	—	2	—	—	—	—	—
Explosives workers	455	46	394	46	—	—	—	—	—	—	—	—	—	—	—	—
Mining machine operators	1 171	223	531	135	6	4	—	—	3	—	—	—	—	—	12	—
Mining occupations, n.e.c.	939	115	512	37	7	7	—	—	5	—	—	—	—	6	—	—
Precision production occupations	2 730 676	450 036	831 541	189 263	85 793	20 409	17 716	1 793	19 711	5 187	12 058	859	—	43 659	9 234	13 707
Supervisors, production occupations	1 277 683	170 287	486 508	91 468	16 466	2 011	8 663	572	13 393	2 486	9 496	519	—	11 114	1 700	6 978
Precision metalworking occupations	814 172	50 449	82 651	8 782	794	80	399	4	1 399	85	1 000	20	—	21 114	95	1 399
Tool and die makers	182 499	3 122	9 247	223	20	—	—	—	62	2	—	—	—	9	—	6
Precision assemblers, metal	21 131	5 170	56 417	154	56	18	—	—	—	—	—	—	—	—	—	—
Mechanists	440 128	21 719	56 264	5 015	619	49	365	—	1 151	78	661	20	—	—	—	132
Boilermakers	13 431	303	3 276	30	26	—	19	—	69	—	41	—	—	20	—	73
Precision grinders, filers, and tool sharpeners	17 178	1 011	572	179	7	—	—	—	—	—	10	—	—	—	—	—
Patternmakers and model makers, metal	18 059	1 632	2 617	1 115	11	—	—	—	5	—	8	—	—	—	—	—
Lay-out workers	19 774	1 967	1 089	509	5	—	—	—	—	—	—	—	—	—	—	—
Precious stones and metals workers (jewelers)	21 589	7 911	300	139	5	2	—	—	—	—	—	—	—	—	—	—
Engravers, metal	10 322	3 213	5 346	1 277	1	—	—	—	—	—	—	—	—	—	—	—
Sheet metal workers	68 096	3 870	3 352	108	44	—	4	4	112	5	250	—	—	19	7	91
Miscellaneous precision metal workers	1 965	531	171	33	—	—	—	—	—	—	—	—	—	—	25	7
Precision woodworking occupations	69 245	11 355	1 876	687	3	—	—	—	—	—	9	—	—	18	6	1
Patternmakers and model makers, wood	3 997	76	223	2	—	—	—	—	—	—	—	—	—	—	—	—
Cabinet makers and bench carpenters	45 830	3 834	256	20	3	—	—	—	—	—	—	—	—	12	—	—
Furniture and wood finishers	15 311	6 474	109	53	—	—	—	—	—	—	9	—	—	—	—	—
Miscellaneous precision woodworkers	4 107	971	1 288	612	—	—	—	—	—	—	—	—	—	6	—	—
Precision textile, apparel, and furnishings machine workers	89 753	42 363	63 060	33 374	52	28	83	56	50	42	27	14	—	25	21	26
Dressmakers	18 965	17 261	14 955	13 869	25	1	9	9	12	12	6	—	—	4	11	17
Tailors	29 597	9 718	29 248	9 612	2	2	21	8	10	2	—	—	—	10	10	11
Upholsterers	21 499	4 613	1 493	252	2	—	—	—	—	—	—	—	—	—	—	—
Shoe repairers	12 207	6 894	11 951	6 795	2	—	—	—	—	—	—	—	—	—	—	—
Apparel and fabric patternmakers	3 220	1 705	2 546	1 410	23	—	53	39	28	28	19	14	—	11	11	6
Miscellaneous precision apparel and fabric workers	4 265	2 172	2 867	1 436	—	—	—	—	—	—	—	—	—	—	6	6
Precision workers, assorted materials	218 174	111 334	30 771	16 218	81	15	5	—	10	2	17	—	—	100	11	27
Hand molders and shapers, except jewelers	31 246	4 367	583	104	5	—	—	—	—	—	7	—	—	11	5	—
Patternmakers, lay-out workers, and cutters	17 775	1 643	1 718	740	1	—	—	—	—	—	—	—	—	—	—	—
Optical goods workers	14 072	5 951	1 119	57	—	—	—	—	—	—	—	—	—	—	—	—
Dental laboratory and medical appliance technicians	3 680	945	159	54	—	—	—	—	—	—	—	—	—	53	6	—
Bookbinders	26 294	14 726	26 017	14 580	29	—	—	—	—	—	—	—	—	—	6	—
Electrical and electronic equipment assemblers	100 729	77 372	77 372	459	286	7	—	—	—	—	—	—	—	—	—	—
Miscellaneous precision workers, n.e.c.	34 378	6 330	1 716	397	46	8	5	—	—	—	3	—	—	5	—	—
Precision food production occupations	126 737	36 336	123 164	35 646	67 395	18 190	7 669	1 155	4 176	2 546	1 010	257	—	30 379	7 388	4 651
Butchers and meat cutters	75 636	21 662	73 492	21 314	66 554	17 671	206	52	1 298	851	405	119	—	278	59	2 014
Bakers	31 751	7 941	30 806	7 715	137	43	134	54	264	129	311	62	—	28 741	6 976	102
Food batchmakers	19 350	6 733	18 866	6 617	704	476	7 329	1 049	2 614	1 566	294	76	—	360	353	36
Precision inspectors, testers, and related workers	63 142	24 128	63 142	24 128	60 483	22 072	2 399	804	27	24	17	12	—	10	2	1 975
Inspectors, testers, and graders	2 462	2 462	2 462	817	42	21	6	6	27	24	17	12	—	10	12	12
Adjusters and calibrators	2 659	2 056	2 63	13	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods														
Food and kindred products														
Meat products														
Dairy products														
Canned and preserved fruits and vegetables														
Grain mill products														
Bakery products														
Sugar and confectionery products														
Total														
Total														
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con.														
Precision production occupations—Con														
Plant and system operators														
Water and sewage treatment plant operators														
Power plant operators														
Stationary engineers														
Miscellaneous plant and system operators														
Operators, fabricators, and laborers														
Machine operators, assemblers, and inspectors														
Machine operators and tenders, except precision														
Metalworking and plastic working machine operators														
Lathe and turning machine set-up operators														
Milling and turning machine operators														
Planing machine operators														
Punching and stamping press machine operators														
Rolling machine operators														
Drilling and boring machine operators														
Grinding, abrading, buffing, and polishing machine operators														
Forging machine operators														
Numerical control machine operators														
Miscellaneous metal, plastic, stone, and glass working machine operators														
Fabricating machine operators														
Metal and plastic processing machine operators														
Molding and casting machine operators														
Metal planing machine operators														
Heat treating equipment operators														
Miscellaneous metal and plastic processing machine operators														
Woodworking machine operators														
Wood frame, railing, and planing machine operators														
Sawing machine operators														
Shaping and joining machine operators														
Nailing and tacking machine operators														
Miscellaneous woodworking machine operators														
Printing machine operators														
Printing machine operators														
Photographers and lithographers														
Typesetters and compositors														
Miscellaneous printing machine operators														
Textile, apparel, and furnishings machine operators														
Winding and twisting machine operators														
Knitting, looping, taping, and weaving machine operators														
Textile cutting machine operators														
Textile sewing machine operators														
Shoe machine operators														
Pressing machine operators														
Laundering and dry cleaning machine operators														
Miscellaneous textile machine operators														
Machine operators, assorted materials														
Cementing and gluing machine operators														
Packaging and filling machine operators														
Extruding and forming machine operators														
Mixing and blending machine operators														
Separating, filtering, and clarifying machine operators														
Compressing and compacting machine operators														
Painting and painting machine operators														
Roasting, cleaning, and picking machine operators														

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Manufacturing, nondurable goods											
	Manufacturing, total					Food and kindred products						
	Total	Female	Total	Female	Total	Meat products	Dairy products	Canned and preserved fruits and vegetables	Grain mill products	Bakery products	Sugar and confectionery products	
United States												
Employed persons 16 years and over—Con.												
Operators, fabricators, and laborers—Con.												
Machine operators, assemblers, and inspectors—Con.												
Machine operators and tenders, except precision—Con.												
Machine operators, assemblers, and inspectors—Con.												
Folding machine operators	28 027	17 194	23 201	15 072	876	452	17	163	48	7	77	61
Furnace, kiln, and oven operators	107 551	5 726	24 238	1 010	287	135	13	812	19	82	70	19
Cutting and grinding machine operators	36 337	3 212	19 281	1 499	1 515	135	22	344	204	116	27	11
Slicing and cutting machine operators	160 089	46 434	76 883	30 037	2 283	1 687	252	1 560	7 632	575	161	127
Motor picture projectionists	81	43	38	6	—	—	9	30	16	—	—	3
Photographic process machine operators	27 890	15 166	17 709	10 168	41	21	—	30	16	11	—	3
Miscellaneous machine operators, n.e.c.	547 844	174 323	245 396	74 270	8 217	3 640	540	6 893	3 263	2 942	1 193	1 280
Machine operators, not specified	1 104 622	380 331	418 132	170 504	7 810	3 012	1 066	9 563	7 994	10 067	4 293	4 035
Fabricators, assemblers, and hand working occupations												
Welders and cutters	1 891 381	766 027	192 205	100 711	9 337	3 122	429	7 254	1 662	2 832	1 345	1 332
Solders and brazers	457 105	35 006	30 337	1 497	894	11	19	920	31	230	13	12
Assemblers	28 648	22 891	677	429	5	5	7	54	48	—	—	743
Hand cutting and trimming occupations	1 343 536	683 245	137 648	87 016	3 569	2 140	390	4 631	981	1 557	875	19
Hand molding, casting, and forming occupations	11 520	4 935	9 041	3 881	4 592	829	2	34	72	9	53	—
Hand painting, coating, and decorating occupations	14 854	4 904	2 456	1 255	19	14	2	34	9	182	127	572
Hand engraving and printing occupations	17 454	6 482	4 273	2 281	31	17	8	63	14	198	713	—
Hand grinding and polishing occupations	1 134	584	380	122	—	—	—	—	—	—	—	—
Miscellaneous hand working occupations	1 969	584	320	111	—	—	1	1 394	9	636	22	5
Production inspectors, testers, samplers, and weighers												
Production inspectors, checkers, and examiners	697 303	369 292	219 308	160 052	8 471	4 980	1 193	12 118	1 880	1 271	806	1 460
Production testers	592 570	322 072	184 854	137 613	5 545	3 088	402	5 160	1 456	993	704	975
Production samplers and weighers	50 313	17 205	3 407	1 255	34	17	2	84	28	11	6	10
Graders and sorters, except agricultural	5 925	2 892	3 798	2 161	67	44	2	103	151	105	11	37
Graders and sorters, except agricultural	48 495	27 123	27 249	19 023	2 825	1 831	787	6 771	245	162	85	438
Transportation and material moving occupations												
Motor vehicle operators	910 417	59 455	381 075	30 954	18 561	522	504	17 030	15 303	22 139	593	329
Supervisors, motor vehicle operators	413 895	11 796	215 732	6 493	13 961	197	370	5 847	10 545	20 169	387	58
Truck drivers, heavy	4 474	466	4 091	420	111	10	4	23	4	680	2	2
Truck drivers, light	277 476	5 012	116 961	2 059	10 005	153	104	4 479	8 200	4 305	54	40
Driver-sales workers	70 266	3 352	44 369	2 251	2 970	23	45	845	1 979	2 496	54	5
Bus drivers	47 326	1 729	45 278	1 435	670	5	217	372	1 246	12 618	277	13
Taxicab drivers and chauffeurs	1 024	216	337	54	54	6	—	3	2	32	9	—
Parking lot attendants	12 559	914	4 308	237	83	—	—	112	61	36	2	—
Motor transportation occupations, n.e.c.	530	98	299	37	60	—	—	13	15	2	—	—
Motor transportation occupations	7 589	176	989	37	8	—	—	—	—	—	—	—
Railroad conductors and yardmasters	834	90	80	11	—	—	—	2	31	24	29	—
Locomotive operating occupations	3 043	33	400	8	7	—	—	2	6	7	7	—
Railroad brake, signal, and switch operators	3 600	62	490	18	8	—	—	—	18	17	—	—
Rail vehicle operators, n.e.c.	112	2	9	—	—	—	—	—	—	—	—	—
Water transportation occupations												
Ship captains and mates, except fishing boats	3 029	139	1 061	69	22	—	—	8	29	3	4	—
Sailors and deckhands	1 334	44	319	14	—	—	—	—	—	—	—	—
Marine engineers	1 045	44	392	20	—	—	—	8	—	—	—	—
Bridge, lock, and lighthouse tenders	563	31	305	24	22	—	—	—	21	2	4	—
Material moving equipment operators	485 904	47 344	163 293	24 355	4 563	325	134	11 173	4 698	1 943	206	271
Supervisors, material moving equipment operators	7 464	442	1 870	94	36	9	—	83	33	22	42	3
Operating engineers	6 555	337	2 100	232	30	—	—	46	50	50	41	—
Longshore equipment operators	97	—	—	—	—	—	—	—	—	—	—	—
Hoist and winch operators	4 475	262	689	53	29	—	—	38	6	—	—	8
Crane and tower operators	75 248	2 083	4 527	159	69	10	—	99	25	18	—	26
Excavating and loading machine operators	5 441	270	1 470	127	39	20	—	53	24	2	—	65
Grader, dozer, and scraper operators	3 721	76	886	27	15	—	—	—	22	63	—	—
Industrial truck and tractor equipment operators	256 727	14 443	97 387	6 240	3 078	59	86	9 577	784	1 060	86	86
Miscellaneous material moving equipment operators	126 176	29 411	54 356	17 423	218	—	48	1 277	3 635	791	162	156

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Employed persons 16 years and over—Con.

	1 306 438	439 259	647 122	271 954	78 987	35 647	20 232	5 594	30 938	15 764	19 945	4 111	33 120	16 757	19 664	12 070
Operators, fabricators, and laborers—Con.																
Handlers, equipment handlers, helpers, and laborers																
Supervisors, handlers, equipment cleaners, and laborers																
n.e.c.																
Helpers, mechanics and repairers	2 018	170	769	78	52	11	29	—	17	—	10	—	11	—	—	—
Helpers, construction and extractive occupations	4 269	240	1 475	81	49	—	20	—	51	—	38	—	75	11	192	—
Helpers, construction trades	8 621	664	1 273	68	30	—	—	—	19	4	25	5	4	—	55	—
Helpers, surveyor	8 491	648	1 215	57	30	—	—	—	19	4	25	5	4	—	55	—
Helpers, extractive occupations	130	16	58	11	—	—	—	—	—	—	—	—	—	—	—	—
Construction laborers	13 144	878	4 101	293	280	36	33	4	86	10	73	—	40	—	59	9
Production helpers	64 023	10 464	27 002	6 256	429	85	331	64	300	73	181	31	4 770	1 515	274	69
Freight, stock, and material handlers	261 086	49 005	127 464	26 472	8 386	1 142	6 334	279	3 741	883	5 893	371	6 337	1 470	2 156	504
Garbage collectors	867	205	389	54	14	5	—	—	21	—	6	2	50	12	14	—
Slevedores	358	125	224	8	—	—	—	—	—	—	—	—	—	—	—	—
Stock handlers and baggers	38 916	12 372	19 656	8 006	989	574	698	97	609	213	920	164	562	256	25	171
Machine tenders and offshooters	87 592	25 802	45 813	13 814	895	277	947	108	611	275	316	65	2 422	1 081	398	281
Freight, stock, and material handlers, n.e.c.	133 353	10 602	61 481	4 590	6 490	286	4 689	74	2 500	282	4 593	140	3 303	121	1 003	52
Garage and service station related occupations	3 782	465	2 186	12	68	—	79	—	36	—	29	—	65	—	43	—
Vehicle washers and equipment cleaners	35 400	8 555	5 262	242	1 802	231	1 036	125	1 523	467	388	80	1 901	205	503	186
Hand packers and packagers	237 974	230 945	231 779	163 759	37 119	23 901	6 201	4 098	13 325	10 242	5 835	2 740	14 991	12 261	11 368	9 908
Laborers, except construction	553 121	130 873	232 010	69 443	30 770	10 229	6 169	1 024	11 840	4 185	7 473	884	926	1 291	5 014	1 394

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.															
Food and kindred products—Con.						Tobacco manufactures				Textile mill products					
Beverage industries		Miscellaneous food preparations and kindred products		Not specified food industries		Total		Female		Kairing mills		Dyeing and finishing textiles, except wool and knit goods		Floor coverings, except hard surface	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over															
206 901	40 275	163 222	58 684	49 138	17 913	69 860	24 871	180 071	118 048	60 521	20 943	67 930	26 712		
28 212	4 440	22 832	3 895	9 948	1 808	7 500	1 298	9 290	2 337	4 657	883	6 221	1 373		
22 647	3 301	18 956	2 968	8 239	1 319	5 462	855	7 574	1 542	3 398	533	4 939	998		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
988	125	825	109	307	42	237	20	328	82	151	12	323	86		
606	139	497	108	240	65	163	50	350	76	174	26	198	37		
200	20	147	25	66	6	60	6	33	7	7	—	18	7		
4 333	269	2 216	173	1 426	117	707	64	450	73	99	—	574	42		
20	8	13	6	2	—	—	—	—	—	—	—	8	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
45	11	22	3	—	—	12	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
12 197	1 342	11 351	1 390	4 722	681	2 489	279	5 237	824	2 351	312	2 802	407		
11 840	1 276	10 665	1 249	4 375	564	2 453	265	4 993	732	2 237	290	2 691	380		
357	66	686	141	347	117	36	14	244	92	114	22	111	27		
4 258	1 387	3 885	1 154	1 476	408	1 794	436	1 776	487	616	183	1 010	419		
2 531	913	2 081	706	744	221	866	252	459	178	261	84	525	229		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—				

Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Manufacturing, nondurable goods—Con.

Food and kindred products—Con.

Beverage industries	Total	Female	Miscellaneous food preparations and kindred products	Total	Female	Not specified food industries	Total	Female	Tobacco manufactures	Total	Female	Knitting mills	Total	Female	Dyeing and finishing textiles, except wool and knit goods	Total	Female	Floor coverings, except hard surface

Employed persons 16 years and over—Con.

Managerial and professional specialty occupations—Con.

Professional specialty occupations—Con

Natural scientists	Total	Female	Physicists and astronomers	Total	Female	Chemists, except biochemists	Total	Female	Atmospheric and space scientists	Total	Female	Geologists and geodesists	Total	Female	Physical scientists, n e c	Total	Female	Agricultural and food scientists	Total	Female	Biological and life scientists	Total	Female	Forestry and conservation scientists	Total	Female	Medical scientists	Total	Female	Health diagnosing occupations	Total	Female	Physicians	Total	Female	Dentists	Total	Female	Veterinarians	Total	Female	Optometrists	Total	Female	Podiatrists	Total	Female	Health diagnosing practitioners, n e c	Total	Female	Registered nurses	Total	Female	Pharmacists	Total	Female	Dietitians	Total	Female	Therapists	Total	Female	Physicians' assistants	Total	Female	Teachers, postsecondary	Total	Female	Teachers, except postsecondary	Total	Female	Teachers, kindergarten and kindergarten	Total	Female	Teachers, elementary and secondary school	Total	Female	Teachers, special education	Total	Female	Teachers, n e c	Total	Female	Counselors, educational and vocational	Total	Female	Librarians, archivists, and curators	Total	Female	Laborers	Total	Female	Archivists and curators	Total	Female	Social scientists and urban planners	Total	Female	Economists	Total	Female	Psychologists	Total	Female	Social scientists, n e c	Total	Female	Urban planners	Total	Female	Social, recreation, and religious workers	Total	Female	Social workers	Total	Female	Recreation workers	Total	Female	Clergy	Total	Female	Religious workers, n e c	Total	Female	Lawyers and judges	Total	Female	Lawyers	Total	Female	Judges	Total	Female	Writers, artists, entertainers, and athletes	Total	Female	Authors	Total	Female	Technical writers	Total	Female	Designers	Total	Female	Musicians and composers	Total	Female	Actors and directors	Total	Female	Painters, sculptors, craft-artists, and artist printmakers	Total	Female	Photographers	Total	Female	Dancers	Total	Female	Artists, performers, and related workers, n e c	Total	Female	Editors and reporters	Total	Female	Public relations specialists	Total	Female	Announcers	Total	Female	Athletes	Total	Female

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.																										
Food and kindred products—Con.						Tobacco manufactures						Textile mill products														
Beverage industries			Miscellaneous food preparations and kindred products			Not specified food industries			Knitting mills			Dyeing and finishing textiles, except wool and knit goods			Floor coverings, except hard surface											
Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female									
41 322	20 524	17 324	30 027	17 324	5 371	10 591	5 371	12 562	6 471	20 841	14 211	8 852	5 256	12 756	7 729	3 729	1 251									
3 729	1 251	1 319	3 074	1 319	465	1 079	465	1 711	574	1 120	524	1 135	465	1 171	330	12	6									
12	6	15	54	15	9	6	9	28	14	2	2	11	11	9	2	6	6									
6	6	13	13	13	6	6	6	8	8	—	—	—	—	—	—	—	—									
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—									
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—									
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—									
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—									
6	—	2	39	2	3	3	3	11	11	2	2	11	11	2	2	—	—									
—	—	—	—	—	—	—	—	9	3	—	—	—	—	7	—	—	—									
459	53	99	350	99	23	139	23	901	281	515	297	631	284	588	216	459	53									
96	12	10	91	10	6	18	6	221	6	31	11	34	8	26	7	96	12									
29	—	—	6	—	—	4	—	22	—	59	39	53	8	56	30	29	—									
13	—	—	12	—	—	5	—	27	—	—	—	12	—	8	—	13	—									
131	36	73	120	73	2	29	2	499	250	388	234	510	276	408	143	131	36									
164	5	16	121	16	21	83	21	128	21	35	13	22	—	88	36	164	5									
26	—	—	—	—	—	—	—	4	4	2	—	22	—	2	—	26	—									
2 401	873	980	2 057	980	381	771	381	179	84	152	113	252	81	136	46	2 401	873									
1 806	710	716	1 610	716	268	608	268	38	15	17	10	52	22	28	5	1 806	710									
133	31	44	89	44	26	47	26	59	37	36	17	106	9	44	3	133	31									
462	132	220	358	220	87	116	87	82	32	99	86	94	50	64	38	462	132									
857	319	225	613	225	52	160	52	603	195	451	112	241	89	438	66	857	319									
92	1	27	27	—	—	—	—	38	—	11	—	—	—	6	—	92	1									
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—									
20	5	—	—	—	8	8	8	—	—	7	7	—	—	2	—	20	5									
512	204	106	264	106	9	52	9	175	64	190	66	99	40	209	49	512	204									
33	17	10	10	10	17	19	17	13	7	6	8	6	—	6	—	33	17									
38	38	109	10	10	18	81	18	370	124	15	13	123	—	44	—	38	38									
162	54	—	312	109	—	—	—	—	—	222	31	—	—	215	17	162	54									
11 480	1 452	989	6 241	989	743	3 498	743	3 059	518	2 163	852	647	151	1 884	346	11 480	1 452									
Supervisors and proprietors, sales occupations	230	10	624	230	10	228	10	178	20	217	95	44	14	42	14	Supervisors and proprietors, sales occupations	230									
Salaries	1 700	65	602	80	22	228	10	178	20	217	95	37	9	42	14	Salaries	1 700									
Self-employed	2	—	22	2	2	2	2	—	—	12	—	7	5	—	—	Self-employed	2									
Sales representatives, finance and business services	135	51	29	9	9	9	9	37	13	—	—	—	—	24	11	Sales representatives, finance and business services	135									
Insurance sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Insurance sales occupations	—									
Real estate sales occupations	5	—	—	—	—	—	—	6	—	—	—	—	—	6	6	Real estate sales occupations	5									
Securities and financial services sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Securities and financial services sales occupations	—									
Advertising and related sales occupations	130	51	29	9	9	9	9	31	13	—	—	—	—	18	5	Advertising and related sales occupations	130									
Sales occupations, other business services	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Sales occupations, other business services	—									
Sales representatives, commodities, except retail	8 801	783	5 286	677	447	2 930	447	2 758	444	1 838	675	576	118	1 774	307	Sales representatives, commodities, except retail	8 801									
Sales engineers	5	—	6	—	6	6	6	—	—	—	—	—	—	—	—	Sales engineers	5									
Sales representatives, mining, manufacturing, and wholesale	8 796	783	5 280	677	447	2 924	447	2 752	444	1 838	675	576	118	1 774	307	Sales representatives, mining, manufacturing, and wholesale	8 796									
Sales workers, retail and personal services	753	464	293	214	250	291	250	80	41	96	82	27	19	34	14	Sales workers, retail and personal services	753									
Sales workers, commodities	46	2	9	—	—	1	—	20	—	8	8	—	—	4	—	Sales workers, commodities	46									
Sales counter clerks	546	321	270	214	243	276	243	48	41	88	74	27	19	4	6	Sales counter clerks	546									
Cashiers	141	141	14	—	7	14	7	4	—	—	—	—	—	4	4	Cashiers	141									
Street and door-to-door sales workers	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Street and door-to-door sales workers	20									
News vendors	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	News vendors	—									
Sales related occupations	89	89	9	9	27	38	27	6	—	—	—	—	—	10	3	Sales related occupations	89									
Demonstrators, promoters and models, sales	89	89	9	9	27	38	27	6	—	—	—	—	—	—	—	Demonstrators, promoters and models, sales	89									
Auctioneers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Auctioneers	—									
Sales support occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Sales support occupations, n.e.c.	—									
Administrative support occupations, including clerical	26 113	17 821	20 712	15 016	4 163	6 014	4 163	7 792	5 379	17 558	12 835	7 070	4 640	9 701	7 053	Administrative support occupations, including clerical	26 113									
Supervisors, administrative support occupations	1 777	502	691	625	157	380	157	534	118	1 016	400	419	78	761	228	Supervisors, administrative support occupations	1 777									
Supervisors, general office	567	223	606	365	111	143	111	152	40	416	208	203	73	324	148	Supervisors, general office	567									
Supervisors, computer equipment operators	100	26	39	18	7	7	7	70	10	27	12	13	—	11	—	Supervisors, computer equipment operators	100									
Supervisors, financial records processing	492	233	452	246	44	110	44	117	44	163	116	44	5	161	52	Supervisors, financial records processing	492									
Chief communications operators	—	—	12	6	—	—	—	11	—	—	—	—	—	—	—	Chief communications operators	—									
Supervisors, distribution, scheduling, and adjusting clerks	618	20	516	56	2	120	2	184	24	410	64	159	—	265	28	Supervisors, distribution, scheduling, and adjusting clerks	618									
Computer equipment operators	1 227	701	630	366	137	211	137	297	161	445	241	257	189	478	291	Computer equipment operators	1 227									
Computer operators	1 156	653	617	353	131	205	131	279	143	419	219	245	177	391	271	Computer operators	1 156									
Peripheral equipment operators	71	48	13	13	6	6	6	18	18	26	19	12	12	87	20	Peripheral equipment operators	71									

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Food and kindred products—Con.						Manufacturing, nondurable goods—Con					
	Beverage industries			Miscellaneous food preparations and kindred products			Not specified food industries			Tobacco manufactures		
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical sales, and administrative support occupations—Con												
Administrative support occupations, including clerical—Con												
Secretaries, stenographers, and typists	6 782	6 691	5 275	5 206	1 714	1 690	2 243	2 209	2 977	2 930	1 305	1 284
Stenographers	6 180	6 106	4 928	4 880	1 676	1 652	2 040	2 011	2 599	2 558	1 107	1 086
Typists	55	55	43	43	38	38	17	17	12	12	6	6
Information clerks	547	530	304	283	38	38	186	181	366	360	192	192
Interviewers	750	704	404	388	165	150	183	160	400	383	114	99
Hotel clerks	46	39	51	51	29	23	11	11	75	75	21	13
Transportation ticket and reservation agents	31	11	—	—	—	—	—	—	—	—	—	—
Receptionists	642	623	295	294	121	121	130	130	279	279	85	8
Information clerks, n e c	31	31	17	17	10	6	36	19	22	15	—	—
Records processing occupations, except financial	1 546	672	1 185	898	396	227	555	396	1 318	1 157	446	242
Classified clerks	104	39	10	10	9	—	18	18	9	9	—	—
Correspondence clerks	31	31	—	—	—	—	8	8	—	—	—	—
Order clerks	562	271	404	288	148	75	101	53	511	462	182	106
Personnel clerks, except payroll and timekeeping	86	68	129	129	60	51	64	64	133	126	46	28
Library clerks	—	—	24	24	—	—	6	6	5	5	—	—
File clerks	723	330	610	439	179	101	344	233	621	527	213	103
Records clerks	40	23	8	8	—	—	14	14	39	28	5	5
Financial records processing occupations	4 887	4 312	3 823	3 329	903	745	893	660	2 457	2 294	1 051	919
Bookkeepers, accounting, and auditing clerks	4 060	3 605	3 078	2 665	632	490	536	387	1 465	1 339	500	431
Payroll and timekeeping clerks	544	472	386	336	137	131	251	204	579	552	173	123
Billing clerks	18	13	202	175	29	22	48	41	311	305	346	326
Cost and rate clerks	76	55	14	16	29	29	20	16	81	77	57	51
Billing, posting, and calculating machine operators	27	27	35	27	33	23	28	22	21	21	11	8
Duplicating, mail, and other office machine operators	39	17	50	40	—	—	16	12	49	35	33	33
Duplicating machine operators	8	2	—	—	—	—	3	3	—	—	—	—
Mail preparing and paper handling machine operators	16	9	14	4	—	—	24	12	46	32	33	33
Office machine operators, n e c	15	6	36	36	—	—	—	—	—	—	—	—
Communications equipment operators	150	143	137	137	15	15	106	97	92	81	30	30
Telephone operators	144	137	133	127	15	15	106	97	92	81	30	30
Telegraphers	6	6	2	2	—	—	—	—	—	—	—	—
Communications equipment operators, n e c	—	—	8	8	—	—	—	—	—	—	—	—
Mail and message distributing occupations	414	109	244	97	105	31	127	68	126	76	72	8
Postal clerks, except mail carriers	—	—	—	—	—	—	—	—	—	—	—	—
Mail carriers, postal service	298	63	210	89	66	7	99	52	116	76	55	8
Mail clerks, except postal service	116	46	34	8	39	24	28	16	10	17	35	12
Messengers	—	—	—	—	—	—	—	—	—	—	—	—
Material recording, scheduling, and distributing clerks	4 615	977	4 334	1 440	1 223	300	1 276	340	5 343	2 186	1 959	647
Dispatchers	182	144	136	111	—	—	8	8	12	7	—	—
Production coordinators	966	205	475	224	142	69	134	52	814	553	361	202
Traffic, shipping, and receiving clerks	1 632	206	1 729	340	349	85	443	81	3 083	850	963	281
Stock and inventory clerks	1 518	427	1 162	485	421	87	511	110	998	541	413	163
Weight readers	—	—	—	—	—	—	—	—	—	—	—	—
Weighters, measurers, and checkers	195	43	694	312	79	42	124	58	238	127	113	23
Sanitarians	—	—	—	—	—	—	—	—	—	—	—	—
Food inspectors	85	55	125	60	12	7	41	8	171	86	82	54
Material recording, scheduling, and distributing clerks, n e c	—	—	—	—	—	—	—	—	—	—	—	—
Adjusters and investigators	17	17	8	8	20	10	7	2	27	22	27	20
Insurance adjusters, examiners, and investigators	219	110	196	123	82	43	71	26	198	164	44	14
Investigators and adjusters, except insurance	—	—	—	—	—	—	—	—	—	—	—	—
Eligibility clerks, social welfare	153	81	111	61	64	29	57	19	165	143	44	14
Bill and account collectors	—	—	23	23	—	—	—	—	—	—	—	—
Miscellaneous administrative support occupations	66	29	62	39	18	14	14	7	33	21	—	—
General office clerks	3 707	2 863	2 803	2 301	820	668	1 467	1 132	3 137	2 888	1 340	1 097
Bank tellers	2 228	1 728	1 607	1 315	574	444	1 033	829	2 305	2 145	1 070	880
Proofreaders	—	—	—	—	—	—	—	—	—	—	—	—
Data-entry keyers	18	7	668	627	8	8	176	171	603	585	144	144
Statistical clerks	192	143	201	160	—	—	63	44	69	59	67	40
Teachers' aides	3	—	8	8	—	—	—	—	—	—	—	—
Administrative support occupations, n e c	421	188	319	191	73	51	195	88	160	99	59	33
Textile mill products												
Dyeing and finishing textiles, except wool and knit goods												
Knitting mills												
Floor coverings, except hard surface												

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States

Employed persons 16 years and over—Con.

Manufacturing, nondurable goods—Con.									
Food and kindred products—Con.				Tobacco manufactures				Textile mill products	
Beverage industries		Miscellaneous food preparations and kindred products		Not specified food industries		Knitting mills		Dyeing and finishing textiles, except wool and knit goods	Floor coverings, except hard surface
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
6 992	1 462	7 319	1 743	4 622	2 134	2 718	596	3 284	687
---	---	---	---	---	---	---	---	---	---
1 309	76	516	40	117	---	670	35	698	61
68	15	30	---	16	---	13	---	12	---
5	---	---	---	---	---	---	---	6	---
62	15	30	---	16	---	13	---	12	---
20	---	---	---	---	---	27	---	17	---
9	---	---	---	20	---	21	---	17	---
11	---	---	---	---	---	6	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
1 221	61	486	40	101	---	630	35	686	61
---	---	---	---	---	---	---	---	---	---
1 214	61	474	28	101	---	630	35	686	61
7	---	12	---	---	---	---	---	---	---
5 683	1 386	6 803	1 703	4 505	2 134	2 048	561	2 586	626
611	336	2 295	1 056	3 087	1 872	1 222	72	78	65
36	18	65	19	119	55	6	6	49	41
55	14	3	3	---	---	4	---	---	---
97	58	56	49	159	129	3	3	---	---
207	104	1 229	368	1 581	867	47	17	15	9
---	---	46	16	11	11	---	---	18	18
42	26	20	20	81	73	---	---	5	5
41	30	455	307	343	248	8	8	2	2
33	19	63	30	138	114	---	---	8	8
100	67	358	244	655	375	54	38	---	---
48	41	44	21	58	42	49	49	38	36
---	---	---	---	---	---	---	---	29	17
12	5	31	8	35	19	---	---	6	6
36	36	13	13	23	23	49	49	---	---
4 637	768	4 384	570	1 323	184	1 815	416	22	17
94	---	85	---	33	8	35	---	2 402	488
368	101	336	82	84	8	174	58	13	13
4 120	662	3 869	482	1 175	165	1 452	348	15	114
55	5	60	6	11	---	147	10	33	362
---	---	34	---	20	3	---	---	68	6
---	---	---	---	---	---	---	---	6	6
387	241	80	56	37	36	62	24	77	56
4	---	---	---	1	---	18	---	50	13
5	---	---	---	---	---	---	---	8	7
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
6	6	---	---	---	---	---	---	28	7
253	145	16	13	---	---	10	10	13	1
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	7	7
---	---	---	---	---	---	---	---	8	8
---	---	4	---	---	---	5	---	---	---
---	---	---	---	---	---	5	9	6	6
119	90	60	41	36	36	29	9	48	40
---	---	---	---	---	---	---	---	---	---
204	13	389	69	35	9	158	13	36	15
---	---	---	---	---	---	---	---	32	6
13	---	---	---	9	9	---	---	---	---
168	6	130	23	26	---	43	---	6	---
---	---	---	---	---	---	---	---	18	8
---	---	---	---	---	---	---	---	23	6
143	---	115	15	26	---	43	---	17	2
25	6	13	8	---	---	---	---	6	6
---	---	2	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con									
Food and kindred products—Con.				Tobacco manufactures		Textile mill products		Floor coverings, except hard surface	
Beverage industries		Miscellaneous food preparations and kindred products		Not specified food industries		Knitting mills		Dyeing and finishing textiles, except wool and knit goods	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
12	7	15	2	—	—	7	7	8	—
12	7	14	2	—	—	—	—	—	—
11	—	244	44	—	—	7	7	8	—
5	—	55	—	—	—	—	—	—	—
5	—	189	44	—	—	—	—	—	—
6	—	—	—	—	—	—	—	—	—
29 825	979	24 566	5 178	6 487	1 147	22 109	4 801	9 043	741
11 903	160	5 966	130	1 503	21	9 881	735	3 066	100
243	—	127	—	—	—	149	—	48	6
11 660	160	5 839	125	1 481	21	9 732	735	3 018	94
1 141	16	34	—	13	—	53	—	91	—
1 145	16	350	—	79	—	51	—	21	—
370	—	111	—	20	—	7	—	72	—
7	—	6	—	2	—	5	—	16	—
—	—	10	—	4	—	—	—	—	—
26	—	8	—	2	—	7	—	—	—
143	—	70	—	36	—	16	—	46	—
—	—	19	—	—	—	7	—	—	—
—	—	—	—	—	—	—	—	—	—
4 428	48	2 843	88	777	8	8 032	412	2 070	61
523	25	142	9	6	—	91	—	128	6
86	—	70	—	6	—	35	6	61	20
45	—	35	—	—	—	6	—	21	—
6	—	16	—	6	—	14	—	7	—
5	—	5	—	—	—	—	—	—	—
5	—	5	—	—	—	—	—	20	20
25	—	14	—	—	—	6	—	13	—
324	—	206	6	16	—	23	—	39	—
4 558	71	2 004	22	533	13	1 458	317	629	7
9	—	3	—	5	—	6	—	13	—
—	—	—	—	—	—	—	—	8	—
8	—	—	—	—	—	—	—	—	—
12	—	6	—	—	—	—	—	—	—
11	—	208	6	70	—	6	—	6	—
302	5	5	—	—	—	72	16	99	6
2 361	31	676	6	173	36	721	264	210	33
1 855	35	1 106	16	285	7	653	34	293	7
3 002	36	1 305	17	275	5	652	52	725	12
212	—	44	—	2	—	33	—	24	—
—	—	2	—	—	—	—	—	7	—
8	—	2	—	—	—	—	—	—	—
68	—	10	—	—	—	12	—	9	—
15	—	—	—	—	—	—	—	5	—
121	—	30	—	2	—	21	7	15	—
2 790	36	1 261	17	273	5	619	45	701	12
21	—	20	—	3	—	8	—	8	—
—	—	6	—	—	—	—	—	—	—
353	—	229	—	24	—	81	—	184	—
1 405	22	595	—	177	—	7	—	357	—
274	6	167	5	25	—	43	—	44	—
—	—	—	—	—	—	—	—	—	—

Employed persons 16 years and over—Con

Farming, forestry, and fishing occupations—Con	
Forestry and logging occupations	
Supervisors, forestry and logging workers	
Forestry workers, except logging	
Timber cutting and logging occupations	
Fishers, hunters, and trappers	
Captains and other officers, fishing vessels	
Fishers	
Hunters and trappers	
Precision production, craft, and repair occupations	
Mechanics and repairers	
Supervisors, mechanics and repairers	
Mechanics and repairers, except supervisors	
Vehicle and mobile equipment mechanics and repairers	
Automobile mechanics	
Bus, truck, and stationary engine mechanics	
Aircraft engine mechanics	
Small engine repairers	
Automobile body and related repairers	
Aircraft mechanics, except engine	
Heavy equipment mechanics	
Farm equipment mechanics	
Industrial machinery repairers	
Machinery maintenance occupations	
Electrical and electronic equipment repairers	
Electronic repairs, communications and industrial equipment	
Data processing equipment repairers	
Household appliance and power tool repairers	
Telephone line installers and repairers	
Telephone installers and repairers	
Miscellaneous electrical and electronic equipment repairers	
Heating, air conditioning, and refrigeration mechanics	
Miscellaneous mechanics and repairers	
Camera, watch, and musical instrument repairers	
Locksmiths and safe repairers	
Office machine repairers	
Mechanical controls and valve repairers	
Elevator installers and repairers	
Millwrights	
Specified mechanics and repairers, n.e.c.	
Not specified mechanics and repairers	
Construction trades	
Supervisors, construction occupations	
Supervisors, brickmasons, stonemasons, and tile setters	
Supervisors, carpenters and related workers	
Supervisors, electricians and power transmission installers	
Supervisors, painters, paperhangers, and plasterers	
Supervisors, plumbers, pipefitters, and steamfitters	
Supervisors, n.e.c.	
Construction trades, except supervisors	
Brickmasons and stonemasons	
Tile setters, hard and soft	
Carpenters	
Carpet installers	
Drywall installers	
Electricians	
Electrical power installers and repairers	
Painters, construction and maintenance	
Paperhangers	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A]

Manufacturing, nondurable goods—Con.											
Food and kindred products—Con.				Tobacco manufactures				Textile mill products			
Beverage industries		Miscellaneous food preparations and kindred products		Not specified food industries		Knitting mills		Dyeing and finishing textiles, except wool and knit goods		Floor coverings, except hard surface	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
588	8	207	—	44	5	252	—	106	—	43	—
6	—	—	—	—	—	—	—	—	—	—	—
20	—	13	—	—	—	8	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
5	—	6	—	—	—	5	—	6	—	—	—
42	—	16	—	—	—	7	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
70	—	2	—	—	—	6	—	—	—	10	—
13	—	35	—	—	—	7	—	2	—	90	19
6	—	27	—	—	—	7	—	—	—	11	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
7	—	2	—	—	—	—	—	2	—	56	19
—	—	6	—	—	—	—	—	—	—	23	—
14 907	783	17 260	5 031	4 709	1 121	5 891	844	5 250	629	4 635	648
11 810	693	9 601	1 576	2 992	578	4 287	671	4 360	454	3 952	551
—	18	1 191	84	299	24	318	80	523	40	456	24
44	—	19	—	12	—	16	—	42	—	8	—
—	—	—	—	—	—	—	—	—	—	—	—
1 623	18	954	77	270	24	1 054	67	398	26	332	8
—	—	—	—	—	—	—	—	—	—	—	—
64	—	40	—	—	—	15	—	8	—	42	—
—	—	80	—	—	—	2	—	—	—	—	—
—	—	9	—	—	—	7	—	—	—	—	—
—	—	7	—	—	—	12	—	6	—	39	—
—	—	—	—	—	—	—	—	—	—	—	—
70	—	15	—	13	—	205	6	60	8	6	—
—	—	63	—	—	—	—	—	9	—	23	—
—	—	—	—	4	—	—	—	2	—	—	—
—	—	—	—	—	—	—	—	8	—	—	—
12	5	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
12	5	—	—	—	—	—	—	8	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
6	—	39	30	4	—	24	24	132	101	82	45
—	—	16	16	4	—	605	24	579	52	16	16
6	—	9	9	—	—	24	—	26	13	32	19
—	—	2	—	—	—	—	—	3	—	—	—
—	—	—	—	—	—	—	—	5	—	2	—
—	—	12	5	—	—	—	—	8	—	2	—
—	—	—	—	—	—	—	—	32	31	23	8
108	7	7	—	17	17	13	—	42	13	33	20
6	—	—	—	—	—	—	—	—	—	17	12
7	7	—	—	—	—	7	—	—	—	8	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
4	—	—	—	—	—	—	—	5	—	8	—
91	—	7	—	17	17	6	—	37	8	—	—
229	44	5 454	3 310	1 057	494	14	—	5	—	16	8
96	11	3 449	2 325	412	125	14	—	5	—	16	8
89	14	373	84	291	176	—	—	—	—	—	—
44	19	1 632	901	354	193	—	—	—	—	—	—
33	13	—	—	12	—	50	32	16	9	29	—
—	—	—	—	—	—	50	32	27	9	29	—
—	—	—	—	—	—	—	—	—	—	—	—

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Construction trades—Con.

Construction trades, except supervisors—Con.

Plasterers

Plumbers, pipefitters, and steamfitters

Concrete and terrazzo finishers

Glaziers

Insulation workers

Paving, surfacing, and tamping equipment operators

Roofers

Sheetmetal duct installers

Structural metal workers

Driers, except

Construction trades, n.e.c.

Supervisors, machine occupations

Dishwashers

Explosives workers

Mining machine operators

Mining occupations, n.e.c.

Precision production occupations

Supervisors, production occupations

Precision metalworking occupations

Tool and die makers

Precision assemblers, metal

Machinists

Boilermakers

Precision grinders, filers, and tool sharpeners

Patternmakers and model makers, metal

Lay-out workers

Precious stones and metals workers (jewelers)

Engravers, metal

Sheet metal workers

Miscellaneous precision metal workers

Precision woodworking occupations

Patternmakers and model makers, wood

Cabinet makers and bench carpenters

Furniture and wood finishers

Miscellaneous precision woodworkers

Precision textile, apparel, and furnishings machine workers

Dressmakers

Tailors

Upholsterers

Shoe repairers

Apparel and fabric patternmakers

Miscellaneous precision apparel and fabric workers

Precision workers, assorted materials

Hand molders and shapers, except jewelers

Patternmakers, lay-out workers, and cutters

Optical goods workers

Dental laboratory and medical appliance technicians

Bookbinders

Electrical and electronic equipment assemblers

Miscellaneous precision workers, n.e.c.

Precision food production occupations

Butchers and meat cutters

Bakers

Food batchmakers

Precision inspectors, testers, and related workers

Inspectors, testers, and graders

Adjusters and calibrators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.													
Food and kindred products—Con.					Tobacco manufactures				Textile mill products				
Beverage industries		Miscellaneous food preparations and kindred products		Not specified food industries		Tobacco manufactures		Knitting mills		Dyeing and finishing textiles, except wool and knit goods		Floor coverings, except hard surface	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
901	3	968	31	228	8	185	37	71	21	164	12	67	—
28	3	26	—	9	—	11	—	—	—	25	—	5	—
126	—	11	—	4	—	6	—	—	—	6	—	8	—
704	—	633	2	209	8	156	37	59	15	113	10	54	—
43	—	298	29	6	—	12	—	12	6	20	2	—	—
100 346	12 857	78 089	30 475	17 455	7 444	34 932	15 419	124 511	95 997	35 942	13 748	37 803	16 478
45 145	9 991	31 888	12 640	7 719	3 725	24 175	11 545	108 404	86 899	29 650	12 589	29 287	15 142
37 346	6 834	26 140	8 936	5 997	2 648	18 289	7 529	96 031	75 994	26 075	10 483	24 755	12 521
193	21	276	45	114	14	218	81	205	111	151	58	188	62
—	—	5	—	—	—	9	—	—	—	—	—	—	—
19	—	3	—	8	—	58	6	46	30	34	13	21	7
—	—	29	—	6	—	11	10	46	8	8	20	20	—
23	—	10	3	35	5	41	41	41	41	14	8	26	—
72	15	10	3	7	—	13	6	—	—	—	—	—	—
—	—	26	23	7	2	7	—	12	12	—	—	31	12
11	—	—	—	—	—	—	—	—	—	—	—	—	—
27	6	176	19	35	—	27	6	41	8	41	10	26	5
—	—	6	—	16	—	—	—	—	—	12	2	7	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
41	—	14	—	7	7	52	45	19	12	42	17	57	38
26	—	14	9	8	8	—	—	39	39	16	5	19	19
110	13	63	20	24	5	234	55	286	181	238	85	484	64
96	6	55	19	24	5	221	55	279	181	209	85	308	62
—	—	5	—	—	—	7	—	7	—	29	—	109	2
—	—	—	—	—	—	—	—	—	—	—	—	13	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
14	7	3	1	—	—	6	—	—	—	—	—	54	—
12	—	99	46	9	3	6	—	126	80	26	—	71	18
—	—	—	—	—	—	18	6	13	4	—	—	—	—
10	—	77	28	—	—	15	—	41	41	5	—	36	15
—	—	18	18	—	—	—	—	10	10	—	—	17	3
—	—	—	—	3	3	—	—	—	—	—	—	4	—
2	—	4	—	6	—	36	15	62	25	21	—	14	—
153	13	224	56	54	6	67	18	556	392	1 172	193	254	48
136	13	169	32	43	6	54	5	545	392	1 128	193	237	62
3	—	—	—	—	—	—	—	—	—	6	—	—	—
7	—	22	14	5	—	13	13	11	—	31	—	12	6
—	—	33	10	—	—	835	459	80 863	67 235	16 116	8 433	16 757	10 120
158	28	280	116	101	88	47	35	4 125	3 059	4 147	2 905	4 355	3 332
2	—	12	10	13	13	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	2	2	—	—	53	46	17 563	12 218	1 785	1 183	1 965	884
—	—	17	7	—	—	11	—	1 863	1 187	254	76	588	202
27	3	105	51	35	35	304	185	35 934	34 628	1 999	1 574	3 869	3 248
—	—	14	12	7	7	43	33	170	166	2	—	23	23
13	—	—	—	—	—	7	—	1 066	622	53	15	63	37
—	—	17	7	12	12	16	16	63	28	39	27	119	8
114	25	113	27	34	21	354	144	20 079	15 327	7 837	2 653	5 775	2 386
36 694	6 759	25 184	8 644	5 687	2 524	16 866	6 895	13 956	7 956	8 356	1 709	6 982	2 170
—	—	60	38	35	10	106	57	86	63	28	23	68	54
15 821	4 016	5 024	2 754	922	502	1 973	1 152	375	337	146	75	148	86
—	—	—	—	—	—	6	—	27	10	68	—	15	—
70	—	87	20	6	—	—	—	3 006	219	3 465	218	1 424	106
1 193	117	1 322	196	337	53	280	6	14	10	24	—	44	18
5 223	331	740	58	93	6	292	202	276	151	21	—	207	32
348	19	366	103	47	16	100	26	74	25	141	14	207	32
133	42	189	103	78	18	46	13	106	24	122	9	7	6
286	—	133	29	20	14	94	48	—	—	—	—	—	—

United States

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con

Precision production occupations—Con.

Plant and system operators

Water and sewage treatment plant operators

Power plant operators

Stationary engineers

Miscellaneous plant and system operators

Operators, fabricators, and laborers

Machine operators, assemblers, and inspectors

Machine operators and tenders, except precision

Metalworking and plastic working machine operators

Lathe and turning machine set-up operators

Lathe and turning machine operators

Milling and planing machine operators

Punching and stamping press machine operators

Rolling machine operators

Drilling and boring machine operators

Grinding, abrading, buffing, and polishing machine operators

Operators

Forging machine operators

Numerical control machine operators

Miscellaneous metal, plastic, stone, and glass working machine operators

Fabricating machine operators, n.e.c.

Metal and plastic processing machine operators

Molding and casting machine operators

Metal plating machine operators

Heat treating equipment operators

Miscellaneous metal and plastic processing machine operators

Woodworking machine operators

Wood lathe, routing, and planing machine operators

Sawing machine operators

Shaping and joining machine operators

Nailing and tacking machine operators

Miscellaneous woodworking machine operators

Printing machine operators

Printing machine operators

Photoengravers and lithographers

Typesetters and compositors

Miscellaneous printing machine operators

Textile, apparel, and furnishings machine operators

Winding and twisting machine operators

Knitting, looping, tapping, and weaving machine operators

Textile cutting machine operators

Textile sewing machine operators

Shoe machine operators

Pressing machine operators

Laundering and dry cleaning machine operators

Miscellaneous textile machine operators

Machine operators, assorted materials

Cementing and gluing machine operators

Packaging and filling machine operators

Extruding and forming machine operators

Mixing and blending machine operators

Separating, filtering, and clarifying machine operators

Compressing and compacting machine operators

Painting and paint spraying machine operators

Roasting and baking machine operators, food

Washing, cleaning, and picking machine operators

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Precision production occupations—Con.

Plant and system operators—Con.

Water and sewage treatment plant operators—

Power plant operators—

Stationary engineers—

Miscellaneous plant and system operators—

Operators, fabricators, and laborers—

Machine operators, assemblers, and inspectors—

Machine operators and tenders, except precision—

Metalworking and plastic working machine operators—

Lathe and turning machine set-up operators—

Lathe and turning machine operators—

Milling and planing machine operators—

Punching and stamping press machine operators—

Rolling machine operators—

Drilling and boring machine operators—

Grinding, abrading, buffing, and polishing machine operators—

Forging machine operators—

Numerical control machine operators—

Miscellaneous metal, plastic, stone, and glass working machine operators—

Fabricating machine operators, n.e.c.—

Metal and plastic processing machine operators—

Molding and casting machine operators—

Metal plating machine operators—

Heat treating equipment operators—

Miscellaneous metal and plastic processing machine operators—

Woodworking machine operators—

Wood lathe, routing, and planing machine operators—

Sawing machine operators—

Shaping and joining machine operators—

Nailing and tacking machine operators—

Miscellaneous woodworking machine operators—

Printing machine operators—

Photoengravers and lithographers—

Typesetters and compositors—

Miscellaneous printing machine operators—

Textile, apparel, and furnishings machine operators—

Winding and twisting machine operators—

Knitting, looping, taping, and weaving machine operators—

Textile cutting machine operators—

Textile sewing machine operators—

Shoe machine operators—

Pressing machine operators—

Laundering and dry cleaning machine operators—

Miscellaneous textile machine operators—

Machine operators, assorted materials—

Generating and gluing machine operators—

Packaging and filling machine operators—

Extruding and forming machine operators—

Mixing and blending machine operators—

Separating, filtering, and clarifying machine operators—

Compressing and compacting machine operators—

Roasting and pitting machine operators—

Washing, cleaning, and picking machine operators—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States

Manufacturing, nondurable goods—Con.

Food and kindred products—Con.						Tobacco manufactures			Textile mill products				
Beverage industries			Miscellaneous food preparations and kindred products			Not specified food industries			Knitting mills			Floor coverings, except hard surface	
Total	Female		Total	Female		Total	Female		Total	Female		Total	Female
58	17	215	158	43	27	766	738	68	766	738	68	10	10
377	6	512	19	81	353	48	10	185	48	10	185	148	—
168	377	527	43	97	355	14	9	16	14	9	16	—	—
108	38	604	297	128	380	1 809	1 364	467	1 809	1 364	467	490	185
—	—	—	—	—	—	6	6	—	6	6	—	—	—
20	—	23	23	10	26	50	50	23	50	50	23	12	7
4 986	628	6 197	1 888	456	4 836	2 571	1 809	1 271	2 571	1 809	1 271	1 580	709
7 818	1 502	8 401	2 957	1 299	8 292	4 708	3 141	2 266	4 708	3 141	2 266	2 799	957
2 885	805	3 383	1 985	548	1 638	1 814	1 389	581	1 814	1 389	581	1 048	396
505	11	560	22	155	165	97	14	10	97	14	10	151	—
—	—	—	—	—	—	22	9	—	22	9	—	—	—
2 189	747	1 707	1 142	796	489	117	887	373	117	887	373	744	368
35	13	976	736	33	—	121	110	8	121	110	8	92	28
4	4	24	8	22	930	36	25	8	36	25	8	5	—
116	14	24	10	—	18	37	21	36	37	21	36	26	—
—	—	15	15	—	—	6	6	—	6	6	—	—	—
36	16	77	52	6	29	378	317	29	378	317	29	30	—
4 914	2 352	2 365	1 719	529	4 248	10 559	9 516	2 994	10 559	9 516	2 994	3 484	2 225
3 701	1 996	1 699	1 226	302	3 399	10 071	9 139	2 704	10 071	9 139	2 704	3 115	1 940
160	25	13	—	—	72	67	48	27	67	48	27	30	24
997	295	56	56	5	24	139	130	36	139	130	36	242	172
—	—	92	437	222	753	282	199	227	282	199	227	97	89
37 719	683	15 916	653	182	3 156	3 211	1 100	1 625	3 211	1 100	1 625	4 400	296
26 678	256	11 487	323	54	1 024	902	90	564	902	90	564	1 510	49
1 021	11	146	—	—	—	—	—	—	—	—	—	—	—
8 076	85	6 045	83	16	810	659	9	480	659	9	480	1 140	34
7 636	40	2 279	86	22	68	127	47	60	127	47	60	273	15
9 751	107	2 878	148	16	96	60	34	13	60	34	13	18	—
28	6	3	—	—	—	5	—	—	5	—	—	—	—
140	7	123	6	41	50	51	—	11	51	—	11	79	—
26	7	13	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
40	—	50	—	—	—	—	—	3	—	—	3	—	—
6	—	32	—	—	—	—	—	—	—	—	—	—	—
10	—	18	—	—	—	—	—	3	—	—	3	—	—
24	—	—	—	—	—	—	—	—	—	—	—	—	—
6	—	48	5	—	—	9	9	7	—	—	7	6	6
—	—	30	5	—	—	—	—	—	—	—	—	—	—
—	—	5	—	—	—	—	—	—	—	—	—	—	—
6	—	13	—	—	—	—	—	7	—	—	7	6	6
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—												

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

United States											
Manufacturing, nondurable goods—Con.											
Food and kindred products—Con.				Tobacco manufactures				Textile mill products			
Beverage industries		Miscellaneous food preparations and kindred products		Not specified food industries		Knitting mills		Dyeing and finishing textiles, except wool and knit goods		Floor coverings, except hard surface	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
17 482	2 183	30 285	17 182	6 646	3 537	7 601	3 567	4 667	1 009	4 116	1 040
Operators, fabricators, and laborers—Con.											
Handriers, equipment cleaners, helpers, and laborers											
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.											
Helpers, mechanics and repairers	18	17	7	—	—	17	—	9	—	—	—
Helpers, construction and extractive occupations	38	27	—	—	—	8	—	—	—	18	—
Helpers, construction trades	32	—	4	—	—	29	—	—	—	22	5
Helpers, surveyor	32	4	4	—	—	29	—	—	—	22	—
Helpers, extractive occupations	—	—	—	—	—	—	—	—	—	—	—
Construction laborers	105	76	—	11	—	76	7	6	6	62	—
Production helpers	33	139	53	126	69	146	78	224	18	106	38
Freight, stock, and material handlers	182	819	850	187	293	1 076	293	2 013	367	1 038	152
Garbage collectors	7	—	—	—	—	6	—	—	—	—	—
Steveldores	—	7	—	—	—	—	—	—	—	—	—
Stock handlers and baggers	19	806	304	199	84	164	18	153	26	80	23
Machine feeders and offbearers	374	920	332	76	375	375	226	1 321	227	658	115
Freight, stock, and material handlers, n.e.c.	5 409	2 419	183	575	46	531	49	539	114	300	14
Garage and service station related occupations	73	20	—	8	—	—	—	—	—	2	—
Vehicle washers and equipment cleaners	680	808	238	260	61	228	104	254	42	62	14
Hand packers and packagers	2 431	1 076	15 514	3 454	2 659	2 584	1 826	3 839	304	755	284
Laborers, except construction	7 659	9 631	3 547	1 937	1 937	3 437	1 259	1 808	272	2 051	547

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

[illegible]

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States		Textile mill products—Con.				Apparel and other finished textile products				Paper and allied products			
		Yarn, thread, and fabric mills		Miscellaneous textile mill products		Apparel and accessories, except knit		Miscellaneous fabricated textile products		Pulp, paper, and paperboard mills		Miscellaneous paper and pulp products	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
Managerial and professional specialty occupations—Con.													
Professional specialty occupations—Con.													
Natural scientists		664	120	170	7	94	26	28	4	2 074	118	561	89
Physicists and astronomers		10	—	—	—	—	—	—	—	14	—	24	5
Chemists, except biochemists		620	109	159	7	89	26	23	4	840	80	460	76
Atmospheric and space scientists		5	—	5	—	—	—	—	—	6	—	—	—
Geologists and geodesists		—	—	—	—	—	—	—	—	—	—	—	—
Physical scientists, n.e.c.		5	—	—	—	—	—	—	—	25	7	—	—
Biological and food scientists		17	11	6	—	—	—	5	—	8	—	—	—
Agricultural and life scientists		—	—	—	—	—	—	—	—	60	8	14	8
Forestry and conservation scientists		—	—	—	—	5	—	—	—	1 110	26	63	73
Medical scientists		—	—	—	—	—	—	—	—	5	5	—	—
Health diagnosing occupations		12	—	2	2	14	8	7	—	22	—	—	—
Physicians		12	—	2	2	6	8	—	—	22	—	—	—
Dentists		—	—	—	—	8	—	—	—	—	—	—	—
Veterinarians		—	—	—	—	—	—	7	—	—	—	—	—
Optometrists		—	—	—	—	—	—	—	—	—	—	—	—
Podiatrists		—	—	—	—	—	—	—	—	—	—	—	—
Health diagnosing practitioners, n.e.c.		—	—	—	—	—	—	—	—	—	—	—	—
Health assessment and treating occupations		641	586	76	76	104	83	35	35	437	431	113	106
Registered nurses		629	580	76	76	79	71	35	35	434	431	113	106
Pharmacists		6	—	—	—	—	—	—	—	—	—	—	—
Dietitians		6	6	—	—	5	5	—	—	—	—	—	—
Therapists		—	—	—	—	13	—	—	—	—	—	—	—
Physicians' assistants		—	—	—	—	7	7	—	—	3	—	—	—
Teachers, postsecondary		121	69	10	10	68	55	—	—	9	—	8	2
Teachers, except postsecondary		1 037	637	58	48	1 317	1 131	135	128	43	8	49	8
Teachers, prekindergarten and kindergarten		13	—	—	—	5	—	—	—	—	—	—	—
Teachers, elementary and secondary school		—	—	—	—	—	—	—	—	—	—	—	—
Teachers, special education		6	637	58	48	1 295	1 126	135	128	43	8	41	8
Teachers, n.e.c.		—	—	—	—	—	—	—	—	—	—	—	—
Counselors, educational and vocational		5	—	—	—	5	5	—	—	7	—	—	—
Librarians, archivists, and curators		30	18	—	—	12	5	6	6	36	36	33	33
Librarians		30	18	—	—	7	—	6	6	36	36	33	33
Archivists and curators		—	—	—	—	5	5	—	—	—	—	—	—
Social scientists and urban planners		221	51	34	—	232	82	56	34	163	46	223	75
Economists		200	49	34	—	226	82	46	24	163	46	223	75
Psychologists		21	2	—	—	6	—	10	10	—	—	—	—
Sociologists		—	—	—	—	—	—	—	—	—	—	—	—
Social scientists, n.e.c.		—	—	—	—	—	—	—	—	—	—	—	—
Urban planners		—	—	—	—	—	—	—	—	—	—	—	—
Social, recreation, and religious workers		25	8	6	—	50	2	—	—	27	2	15	15
Social workers		19	8	6	—	2	2	—	—	—	—	—	—
Recreation workers		—	—	—	—	5	—	—	—	2	—	—	—
Clergy		6	—	—	—	43	—	—	—	18	2	—	—
Religious workers, n.e.c.		—	—	—	—	—	—	—	—	7	—	—	—
Lawyers and judges		90	22	14	—	115	17	13	7	121	13	60	—
Lawyers		90	22	14	—	115	17	13	7	121	13	60	—
Judges		—	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, entertainers, and athletes		2 268	1 143	132	49	8 707	6 480	1 387	835	769	197	1 148	494
Authors		2	—	—	—	20	17	—	—	12	—	—	—
Technical writers		28	19	—	—	20	20	21	13	39	12	34	22
Designers		1 763	923	91	24	7 824	5 885	929	556	295	37	463	185
Musicians and composers		8	—	—	—	38	21	8	—	1	—	—	—
Actors and directors		9	4	—	—	17	10	—	—	7	—	—	—
Painters, sculptors, craft-artists, and artist printmakers		180	74	13	13	394	268	336	213	100	53	448	176
Photographers		21	6	6	4	16	—	15	2	11	—	30	—
Dancers		—	—	—	—	—	—	—	—	—	—	—	—
Artists, performers, and related workers, n.e.c.		34	10	7	8	78	47	33	26	22	8	30	28
Editors and reporters		47	34	—	—	66	66	7	—	109	37	72	56
Public relations specialists		160	59	7	—	225	137	38	18	173	45	65	27
Announcers		—	—	—	—	—	—	—	—	—	—	—	—
Athletes		16	12	—	—	9	9	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.									
Textile mill products—Con.			Apparel and other finished textile products			Paper and allied products			Paperboard containers and boxes
Yarn, thread, and fabric mills		Miscellaneous textile mill products	Apparel and accessories, except knit		Miscellaneous fabricated textile products	Pulp, paper, and paperboard mills		Miscellaneous paper and pulp products	
Total	Female	Total	Total	Female	Total	Total	Female	Total	Female
67 149	38 902	9 577	123 126	80 328	19 091	48 144	21 804	35 257	18 813
9 289	3 746	1 207	2 934	1 520	657	9 881	1 613	3 668	1 008
215	171	4	49	43	—	127	58	12	6
43	32	—	10	4	—	36	6	—	—
—	—	—	—	—	—	—	—	—	—
26	—	—	—	—	—	—	—	—	—
101	101	—	27	27	—	8	8	6	6
45	38	4	12	12	—	44	44	6	6
5 047	2 487	616	1 244	717	427	6 204	923	1 977	546
375	21	21	109	12	38	1 493	16	217	26
547	316	31	263	135	73	1 627	274	100	7
87	216	—	19	5	23	96	4	38	2
3 566	2 153	513	473	351	246	3 191	558	1 216	425
459	88	51	380	214	47	738	63	406	86
13	—	—	—	—	—	59	8	—	—
1 114	463	250	309	224	62	1 173	211	411	157
274	130	23	66	42	6	208	23	80	17
435	104	73	69	57	20	426	104	73	17
405	229	154	174	125	36	539	84	258	123
2 913	625	337	1 332	536	168	2 377	421	1 268	299
55	—	29	33	—	—	96	—	14	—
—	—	—	—	—	—	—	—	—	—
23	2	—	6	6	5	34	14	—	—
784	243	138	931	379	95	647	174	393	132
36	5	7	23	6	—	6	—	8	—
34	23	—	40	11	6	30	19	7	7
1 981	352	163	299	114	62	1 564	214	846	167
8 156	1 727	1 429	25 673	9 615	3 790	5 479	883	6 408	1 066
602	137	126	573	1 920	308	344	79	310	20
566	137	112	2 424	1 601	234	323	79	291	20
36	14	14	171	69	74	21	—	19	—
54	29	14	96	70	15	36	13	19	8
—	—	—	—	—	—	—	—	—	—
25	7	7	37	23	—	17	—	5	—
—	—	—	—	—	—	—	—	—	—
29	22	8	59	47	15	19	13	14	8
—	—	—	—	—	—	—	—	—	—
7 124	1 332	1 236	22 097	7 578	3 359	4 961	695	6 124	941
41	—	14	32	—	43	50	—	59	—
7 083	1 332	1 222	22 065	7 578	3 316	4 911	695	6 065	941
362	229	52	861	697	72	138	96	155	97
9	—	17	41	17	—	12	6	8	—
—	—	—	27	15	12	7	—	6	—
214	178	22	688	633	34	62	53	70	4
43	28	8	71	31	7	22	14	71	38
89	23	5	34	18	2	35	21	—	—
14	—	—	46	40	36	—	—	—	—
—	—	—	26	26	36	—	—	—	—
—	—	—	6	—	—	—	—	—	—
14	—	—	14	14	—	—	—	—	—
33 429	6 941	222	94 519	69 193	14 644	32 784	19 308	24 981	16 739
2 843	814	496	6 432	3 307	1 052	2 042	426	2 047	668
1 231	477	167	2 789	1 712	443	557	191	767	376
71	27	13	206	81	35	88	17	37	3
441	218	92	981	775	181	508	150	241	241
26	—	—	—	—	—	—	—	6	—
90	224	—	2 454	736	381	889	68	788	42
1 074	240	—	2 444	766	257	1 157	593	748	378
1 533	768	226	2 422	1 457	243	1 015	525	691	353
1 394	653	14	222	178	14	142	68	57	25
139	115	14	—	—	—	—	—	—	—

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations	49 724
Technicians and related support occupations	2 843
Health technologists and technicians	1 231
Clinical laboratory technologists and technicians	71
Dental hygienists	441
Health record technologists and technicians	26
Radiologic technicians	90
Licensed practical nurses	768
Health technologists and technicians, n.e.c.	653
Engineering and related technologists and technicians	1 074
Electrical and electronic technicians	2 444
Industrial engineering technicians	2 422
Mechanical engineering technicians	736
Engineering technicians, n.e.c.	381
Drafting occupations	12
Surveying and mapping technicians	84
Science technicians	202
Biological technicians	188
Chemical technicians	14
Science technicians, n.e.c.	—
Technicians, except health, engineering, and science	—
Airplane pilots and navigators	—
Air traffic controllers	—
Broadcast equipment operators	—
Computer programmers	—
Tool programmers, numerical control	—
Legal assistants	—
Technicians, n.e.c.	—
Sales occupations	—
Supervisors and proprietors, sales occupations	—
Salaries	—
Self-employed	—
Sales representatives, finance and business services	—
Insurance sales occupations	—
Real estate sales occupations	—
Securities and financial services sales occupations	—
Advertising and related sales occupations	—
Sales occupations, other business services	—
Sales representatives, commodities, except retail	—
Sales engineers	—
Sales representatives, mining, manufacturing, and wholesale	—
Sales workers, retail and personal services	—
Sales workers, commodities	—
Sales counter clerks	—
Cashiers	—
Street and door-to-door sales workers	—
News vendors	—
Sales related occupations	—
Demonstrators, promoters and models, sales	—
Auctioneers	—
Sales support occupations, n.e.c.	—
Administrative support occupations, including clerical	—
Supervisors, administrative support occupations	—
Supervisors, general office	—
Supervisors, computer equipment operators	—
Supervisors, financial records processing	—
Chief communications operators	—
Supervisors, distribution, scheduling, and adjusting clerks	—
Computer equipment operators	—
Peripheral equipment operators	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con													
Textile mill products—Con.				Apparel and other finished textile products				Paper and allied products					
Yarn, thread, and fabric mills		Miscellaneous textile mill products		Apparel and accessories, except knit		Miscellaneous fabricated textile products		Pulp, paper, and paperboard mills		Miscellaneous paper and pulp products		Paperboard containers and boxes	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
Technical, sales, and administrative support occupations—Con													
Administrative support occupations, including clerical—Con													
Secretaries, stenographers, and typists—Con													
10 380	10 203	1 426	1 396	13 296	13 015	2 891	2 875	8 393	8 302	5 849	5 819	4 755	4 728
9 232	9 088	1 299	1 269	11 623	11 391	2 483	2 467	7 490	7 433	5 163	5 155	4 260	4 233
121	121	7	7	71	71	9	9	125	118	43	43	16	16
1 027	994	120	120	1 602	1 553	399	399	778	751	643	621	477	477
785	709	151	128	2 389	2 293	359	359	629	557	539	507	573	563
93	85	7	—	316	280	67	67	45	31	86	77	31	31
—	—	—	—	—	—	—	—	—	—	—	—	—	—
56	28	16	—	69	54	—	—	70	29	18	18	14	6
578	538	123	123	1 926	1 881	280	280	442	436	398	392	521	519
58	5	5	—	78	78	12	12	72	61	37	20	7	7
3 251	2 243	538	407	6 640	5 377	1 030	845	1 720	964	1 495	997	1 382	968
—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	12	18	18	46	44	2	2	25	16	2	2	—	—
1 174	715	206	175	3 410	2 551	582	447	720	426	759	464	527	350
428	415	12	12	321	303	53	53	190	175	58	52	60	60
15	7	—	—	10	8	—	—	5	5	6	6	—	—
1 569	1 041	284	184	2 632	2 280	373	324	668	296	509	345	481	340
53	53	18	18	206	184	16	16	44	2	52	33	34	8
6 254	5 540	1 071	1 004	17 485	16 028	2 720	2 479	3 884	3 198	3 188	2 853	3 887	3 447
3 692	3 255	710	658	11 441	10 436	2 072	1 863	2 500	2 086	2 260	2 041	2 461	2 204
1 589	1 468	182	174	4 012	3 870	350	334	679	505	422	381	750	677
605	550	105	105	1 469	1 253	263	247	500	467	370	336	554	511
285	202	66	66	403	340	28	28	156	106	121	80	94	31
83	65	8	1	160	129	7	7	49	34	15	15	28	24
126	60	50	18	396	325	10	5	138	89	268	206	56	26
12	5	—	—	110	59	—	—	36	30	22	22	28	13
39	13	—	—	53	46	5	5	26	24	47	47	—	—
75	42	50	18	233	220	5	5	76	35	199	137	28	13
363	319	38	38	500	495	64	48	229	191	176	168	114	107
325	298	38	38	493	493	64	48	225	191	176	168	104	102
38	21	—	—	7	2	—	—	4	—	—	—	10	5
—	—	—	—	—	—	—	—	—	—	—	—	—	—
483	152	25	2	878	330	170	62	488	172	253	130	188	94
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
383	126	20	2	618	256	120	62	407	162	242	125	142	77
100	26	5	—	260	74	50	—	81	10	11	5	46	17
13 672	4 580	1 944	619	28 255	12 462	3 875	1 306	8 643	1 409	6 450	1 937	4 751	1 187
117	72	5	—	17	9	7	7	69	—	38	25	30	30
2 411	1 328	341	142	3 331	2 182	478	233	1 138	341	1 013	406	939	360
6 080	1 431	1 028	210	17 761	6 379	2 303	553	3 474	335	3 222	607	2 385	316
3 559	1 096	446	184	5 380	2 597	760	291	2 623	466	1 543	548	1 047	357
—	—	—	—	—	—	—	—	—	—	—	—	—	—
863	293	69	29	844	612	152	113	877	101	265	121	156	55
38	15	—	—	25	15	18	18	123	89	10	10	10	10
472	243	43	43	583	449	136	80	251	112	238	139	172	77
—	—	—	—	—	—	—	—	—	—	—	—	—	—
132	102	12	11	314	219	21	11	88	9	8	2	12	12
671	441	86	61	1 316	1 071	135	116	405	220	529	269	378	202
—	—	—	—	—	—	—	—	—	—	—	—	—	—
522	332	64	45	965	806	100	81	349	164	483	232	317	162
13	7	22	16	6	6	20	20	—	—	—	—	—	—
136	102	—	—	345	259	15	15	56	56	46	37	61	40
9 363	7 600	876	696	14 288	12 855	2 081	1 874	5 056	3 187	3 439	2 807	2 467	1 667
6 883	5 739	679	541	10 333	9 318	1 531	1 380	2 818	1 769	1 654	1 545	1 545	1 251
—	—	—	—	—	—	—	—	—	—	—	—	—	—
21	19	—	—	22	22	—	—	31	31	112	105	20	12
1 468	1 297	120	101	2 483	2 436	352	339	1 075	972	741	702	478	268
301	214	17	17	521	390	67	67	463	231	195	138	175	47
14	9	1	—	—	—	—	—	2	2	8	8	16	16
676	322	59	37	919	689	131	88	647	182	392	200	333	73

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con	
Administrative support occupations, including clerical—Con	
Secretaries, stenographers, and typists—	
Secretaries—	
Stenographers—	
Typists—	
Information clerks—	
Interviewers—	
Hotel clerks—	
Transportation ticket and reservation agents—	
Receptionists—	
Information clerks, n e c—	
Records processing occupations, except financial—	
Classified-ad clerks—	
Correspondence clerks—	
Order clerks—	
Personnel clerks, except payroll and timekeeping—	
Library clerks—	
File clerks—	
Records clerks—	
Financial records processing occupations—	
Bookkeepers, accounting, and auditing clerks—	
Payroll and timekeeping clerks—	
Billing clerks—	
Cost and rate clerks—	
Billing, posting, and calculating machine operators—	
Duplicating, mail, and other office machine operators—	
Duplicating machine operators—	
Mail preparing and paper handling machine operators—	
Office machine operators, n e c—	
Communications equipment operators—	
Telephone operators—	
Telegraphers—	
Communications equipment operators, n e c—	
Mail and message distributing occupations—	
Postal clerks, except mail carriers—	
Mail carriers, except postal service—	
Mail carriers, postal service—	
Messengers—	
Material recording, scheduling, and distributing clerks—	
Dispatchers—	
Production coordinators—	
Traffic, shipping, and receiving clerks—	
Stock and inventory clerks—	
Meter readers—	
Weighters, measurers, and checkers—	
Samplers—	
Expeditors—	
Material recording, scheduling, and distributing clerks, n e c—	
Adjusters and investigators—	
Insurance adjusters, examiners, and investigators—	
Investigators and adjusters, except insurance—	
Eligibility clerks, social welfare—	
Bill and account collectors—	
Miscellaneous administrative support occupations—	
General office clerks—	
Bank tellers—	
Proofreaders—	
Store-room keepers—	
Statistical clerks—	
Teachers' aides—	
Administrative support occupations, n e c—	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.													
Textile mill products—Con.				Apparel and other finished textile products				Paper and allied products					
Yarn, thread, and fabric mills		Miscellaneous textile mill products		Apparel and accessories, except knit		Miscellaneous fabricated textile products		Pulp, paper, and paperboard mills		Miscellaneous paper and pulp products		Paperboard containers and boxes	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
17 323	3 650	1 517	203	14 701	4 275	1 676	393	9 056	1 161	3 590	590	3 433	429
2 631	111	354	15	2 040	110	192	—	2 122	161	579	38	373	32
42	—	—	—	8	8	—	—	71	—	17	—	—	—
5	—	—	—	—	—	—	—	36	—	—	—	—	—
37	—	—	—	8	8	—	—	35	—	17	—	—	—
53	—	—	—	7	—	—	—	203	—	8	—	6	—
38	—	—	—	141	—	—	—	141	—	8	—	6	—
15	—	—	—	7	—	—	—	62	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
2 536	111	354	15	2 025	102	192	—	1 848	161	554	38	367	32
2 514	102	354	15	2 025	102	192	—	1 840	153	554	38	367	32
5	—	—	—	—	—	—	—	8	—	—	—	—	—
14 692	3 539	1 163	188	12 661	4 165	1 484	393	6 934	1 000	3 011	552	3 060	397
490	360	19	19	503	335	41	25	319	92	175	119	146	86
40	23	—	—	15	—	2	—	23	16	9	—	2	—
9	3	—	—	55	16	6	—	2	—	—	—	—	—
93	93	—	—	94	85	—	—	6	4	—	—	31	—
208	132	—	—	156	105	23	16	239	44	59	31	67	38
5	—	—	—	6	6	—	—	—	—	—	—	5	—
53	51	—	—	16	8	—	—	—	—	7	7	—	—
22	13	—	—	—	—	—	—	—	—	20	20	2	2
—	—	—	—	27	2	—	—	—	—	—	—	—	—
—	—	—	—	134	113	10	7	49	28	80	61	39	33
60	45	19	19	165	158	—	—	63	63	20	10	10	10
69	65	—	—	3	—	—	—	—	—	—	—	—	—
8	8	—	—	10	8	—	—	—	—	6	6	—	—
61	57	—	—	152	147	—	—	63	63	14	4	10	10
13 490	2 917	1 120	166	11 153	2 996	1 392	317	6 446	825	2 759	383	2 859	289
91	5	19	7	93	26	3	—	144	10	53	13	44	8
797	384	77	20	1 050	593	148	42	279	80	138	35	164	28
12 265	2 487	1 000	129	9 778	2 354	1 224	275	5 990	735	2 514	328	2 625	253
334	38	24	10	232	23	17	—	31	—	54	7	24	—
3	3	—	—	—	—	—	—	2	—	—	—	2	—
643	197	24	3	840	676	51	51	106	20	57	40	45	12
Supervisors, personal service occupations	69	—	—	16	—	—	—	—	—	8	8	2	—
Barbers	8	—	—	—	—	—	—	—	—	—	—	—	—
15	15	—	—	19	11	6	6	2	2	—	—	2	—
4233	68	24	3	25	14	2	2	8	6	18	18	24	5
19	16	—	—	22	—	—	—	48	2	5	—	—	—
—	—	—	—	6	6	—	—	3	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
14	—	—	—	6	6	—	—	—	—	13	7	2	2
8	—	—	—	—	—	—	—	—	—	—	—	—	—
87	79	—	—	49	49	9	9	19	3	4	—	5	5
—	—	—	—	697	590	27	27	26	7	9	7	10	—
351	54	72	21	108	41	26	8	1 282	97	183	7	112	27
Farming, forestry, and fishing occupations	—	—	—	—	—	—	—	—	—	—	—	—	—
Farm operators and managers	—	—	—	2	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	—	—	—	67	16	12	1	282	30	61	—	35	—
Related agricultural occupations	—	—	—	9	9	—	—	—	—	—	—	—	—
Supervisors, related agricultural occupations	—	—	—	52	12	12	1	262	19	56	—	23	—
Groundkeepers and gardeners	19	29	—	—	6	—	—	20	11	5	—	—	—
Animal caretakers, except farm	11	—	—	6	—	—	—	—	—	—	—	—	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	—	—	—	—	—	—	—	—	—	12	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.															
Textile mill products—Con.				Apparel and other finished textile products				Paper and allied products							
Yarn, thread, and fabric mills				Miscellaneous textile mill products		Apparel and accessories, except knit		Miscellaneous fabricated textile products		Pulp, paper, and paperboard mills		Miscellaneous paper and pulp products		Paperboard containers and boxes	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
33	17	28	20	24	16	14	7	971	67	114	7	77	27		
—	—	—	—	—	—	—	—	50	7	—	—	—	—		
9	—	28	20	7	7	14	7	93	12	24	7	37	21		
24	17	—	—	17	9	—	—	828	48	90	—	40	6		
20	7	15	1	15	9	—	—	29	—	8	—	—	—		
13	—	15	1	3	3	—	—	—	—	—	—	—	—		
7	7	—	—	6	6	—	—	29	—	8	—	—	—		
92	58	9	1	111	57	15	5	62	1	26	2	26	1		
43	28	3	1	12	4	2	7	21	8	9	3	8	1		
42	29	3	1	180	1	38	3	585	41	150	4	126	26		
879	579	46	4	12	28	2	328	21	305	9	411	7	264		
863	38	124	183	306	26	105	7	191	7	328	—	350	—		
485	13	74	—	151	18	96	7	509	7	177	—	176	—		
74	—	—	—	10	—	—	—	120	—	31	—	35	—		
6	—	12	—	8	—	—	—	19	—	—	—	7	—		
8	—	—	—	—	—	—	—	2	—	—	—	5	—		
100	—	5	—	56	8	—	—	42	—	2	—	—	—		
26	20	4	—	12	—	—	—	6	—	—	—	—	—		
131	5	11	—	55	—	8	—	480	—	110	—	99	—		
33	—	7	—	14	—	—	—	13	—	8	—	28	—		
32	91	2	110	8	455	1	103	6	154	6	297	4	209		
1	80	46	—	93	34	30	—	1	19	328	22	263	23		
331	19	45	—	246	86	47	—	31	8	151	13	24	—		
247	—	—	—	—	—	—	—	—	—	—	—	—	—		
11	11	34	—	17	6	—	—	204	8	59	6	12	—		
18	—	3	—	18	8	—	—	23	—	62	7	—	—		
15	—	—	—	168	38	22	—	5	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	11	6	—	—	31	—	21	—	—	—		
40	8	8	—	32	28	25	—	48	—	9	—	12	—		
608	14	13	—	54	—	37	—	90	—	24	—	13	—		
6	623	877	73	2	786	832	218	12	117	2	79	32	—		
86	8	5	—	20	7	1	1	184	—	26	—	23	—		
8	—	—	—	15	—	9	9	—	—	—	—	—	—		
2	—	8	—	—	—	5	—	7	—	26	—	6	—		
37	—	—	—	20	—	4	—	26	—	—	—	—	—		
617	39	145	8	146	81	4	—	18	—	2	—	5	—		
2	413	323	62	1	405	89	9	7	128	815	33	554	—		
3	163	396	3	1	344	424	157	2	754	17	33	571	3		
6	152	616	22	1	325	300	42	2	073	1	132	1	23		
299	—	—	—	186	186	1	92	12	923	2	37	1	6		
206	25	13	—	162	33	12	—	627	88	85	—	68	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
28	8	—	—	5	5	—	—	11	—	9	—	—	—		
72	5	13	—	7	—	9	—	327	—	46	—	22	—		
5	—	—	—	—	—	—	—	27	—	6	—	—	—		
101	12	—	—	150	28	3	—	262	—	24	—	46	—		
6	093	603	22	1	153	1	92	12	296	2	37	1	6		
40	10	—	—	21	10	16	—	19	14	14	—	18	—		
10	6	21	—	12	12	9	—	—	—	—	—	—	—		
38	10	—	—	—	—	36	4	—	—	—	—	—	—		
1	153	91	—	398	32	112	—	5	—	200	7	163	—		
11	45	6	—	18	3	7	7	1	134	10	30	864	—		
3	403	312	—	334	4	182	—	5	989	1	279	—	—		
21	12	15	—	—	4	102	—	6	—	124	—	86	—		
377	13	40	—	142	44	102	15	434	7	—	—	—	—		

Construction trades—
 Supervisors, construction occupations—
 Supervisors, brickmasons, stonemasons, and tile setters—
 Supervisors, carpenters and related workers—
 Supervisors, electricians and power transmission installers—
 Supervisors, painters, paperhangers, and plasterers—
 Supervisors, plumbers, pipefitters, and steamfitters—
 Supervisors, n.e.c.—
 Construction trades, except supervisors—
 Brickmasons and stonemasons—
 Tile setters, hard and soft—
 Carpenters—
 Drywall installers—
 Electricians—
 Electrical power installers and repairers—
 Painters, construction and maintenance—
 Paperhangers—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.									
Textile mill products—Con.			Apparel and other finished textile products			Paper and allied products			
Yarn, thread, and fabric mills		Miscellaneous textile mill products	Apparel and accessories, except knit		Miscellaneous fabricated textile products	Pulp, paper, and paperboard mills		Miscellaneous paper and pulp products	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
701	16	72	5	7	73	6	22	462	—
8	—	—	—	55	14	4	171	10	—
7	—	—	—	13	—	21	—	—	—
112	2	21	—	—	17	178	6	55	—
8	—	—	—	2	2	—	—	—	—
20	—	7	—	13	—	20	—	8	—
4	—	6	—	—	—	62	—	—	—
—	—	—	—	—	7	—	—	—	—
179	11	12	5	42	30	27	—	7	—
193	79	13	6	52	27	40	5	30	7
23	6	6	—	15	13	2	—	5	5
8	—	—	—	—	—	—	—	—	—
11	11	—	—	—	—	—	—	—	—
43	43	—	—	22	14	36	—	14	2
90	19	7	—	15	—	2	—	9	—
61	—	—	—	—	—	—	—	—	—
42 298	7 022	5 605	929	97 360	56 091	27 787	1 036	14 866	1 902
33 652	4 664	4 218	551	48 801	32 106	19 477	766	10 871	1 432
4 193	427	591	25	4 298	2 002	4 292	182	3 017	238
123	—	56	—	78	—	238	6	272	6
47	14	4	—	37	25	10	—	5	—
3 453	252	517	23	1 878	778	3 398	150	2 367	188
73	12	1	—	15	—	273	—	82	—
29	8	—	—	127	109	23	—	29	2
32	27	—	—	1 906	946	30	5	20	12
97	49	—	—	163	92	21	2	16	6
5	—	6	—	30	14	13	—	5	—
74	26	—	—	13	19	12	11	164	13
241	15	7	—	38	7	226	6	60	9
19	19	—	—	13	2	—	—	2	2
106	54	9	—	911	486	29	—	31	—
—	—	—	—	13	—	—	—	20	—
15	7	—	—	7	—	—	—	4	—
27	11	—	—	—	—	—	—	—	—
64	43	2	—	891	496	23	6	7	—
2 901	1 629	594	311	41 589	20 572	46	6	101	60
1 319	1 040	164	138	10 343	9 944	19	—	17	17
233	149	44	20	28 392	9 200	8	—	16	2
17	103	70	10	35	388	—	—	—	—
81	12	—	—	45	17	—	—	8	—
11	—	—	—	—	5	32	6	—	—
201	111	24	6	1 411	737	5	—	42	25
320	214	292	137	1 363	663	7	16	16	16
275	65	12	7	1 172	639	152	34	152	99
10	2	—	—	34	11	12	—	—	—
15	13	—	—	950	553	22	3	17	—
20	—	—	—	33	10	4	—	4	—
14	7	—	—	17	9	—	—	—	—
—	—	5	—	10	3	69	22	72	54
—	—	—	—	14	11	8	5	22	22
216	43	7	7	114	42	37	5	41	23
60	9	—	—	148	70	19	2	49	12
51	7	—	—	77	28	13	2	49	12
9	2	—	—	62	33	6	—	—	—
—	—	—	—	9	—	—	—	—	—
185	83	34	29	68	59	36	8	59	11
178	83	34	29	63	54	43	—	43	11
7	—	—	—	5	5	8	—	16	—

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Construction trades—Con.

Construction trades, except supervisors—Con.

Plasterers

Plumbers, pipefitters, and steamfitters

Concrete and terrazzo finishers

Glaziers

Insulation workers

Paving, surfacing, and tamping equipment operators

Roofers

Sheetmetal duct installers

Structural metal workers

Drillers, earth

Construction trades, n.e.c.

Extractive occupations

Supervisors, extractive occupations

Drillers, all well

Explosives workers

Mining machine operators

Mining occupations, n.e.c.

Precision production occupations

Supervisors, production occupations

Precision metalworking occupations

Tool and die makers

Precision assemblers, metal

Machinists

Boilermakers

Precision grinders, filers, and tool sharpeners

Patternmakers and model makers, metal

Lay-out workers

Precious stones and metals workers (jewelers)

Engravers, metal

Sheet metal workers

Miscellaneous precision metal workers

Precision woodworking occupations

Patternmakers and model makers, wood

Cabinet makers and bench carpenters

Furniture finishers

Miscellaneous precision woodworkers

Precision textile, apparel, and furnishings machine workers

Dressmakers

Tailors

Upholsterers

Shoe repairers

Apparel and fabric patternmakers

Miscellaneous precision apparel and fabric workers

Precision workers, assorted materials

Hand molders and shapers, except jewelers

Patternmakers, lay-out workers, and cutters

Optical goods workers

Dental laboratory and medical appliance technicians

Bookbinders

Electrical and electronic equipment assemblers

Miscellaneous precision workers, n.e.c.

Precision food production occupations

Butchers and meat cutters

Bakers

Food batchmakers

Precision inspectors, testers, and related workers

Inspectors, testers, and graders

Adjusters and calibrators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Textile mill products—Con.				Apparel and other finished textile products				Paper and allied products			
	Miscellaneous textile mill products		Apparel and accessories, except knit		Miscellaneous fabricated textile products		Pulp, paper, and paperboard mills		Miscellaneous paper and pulp products		Paperboard containers and boxes	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States												
Employed persons 16 years and over—Con.												
Precision production, craft, and repair occupations—Con												
Precision production occupations—Con												
Plant and system operators	926	91	373	147	70	11	3 716	38	586	50	512	30
Water and sewage treatment plant operators	84	8	—	—	6	—	257	3	45	—	11	—
Power plant operators	70	9	7	—	—	—	851	7	51	—	27	—
Stationary engineers	698	53	339	126	62	11	2 175	14	446	37	433	6
Miscellaneous plant and system operators	74	21	27	21	2	—	433	14	44	13	41	24
Operators, fabricators, and laborers	361 887	201 416	846 591	760 200	88 382	66 044	153 593	20 895	93 491	36 559	111 288	30 091
Machine operators, assemblers, and inspectors	303 322	186 882	781 538	721 206	76 607	60 522	104 444	14 461	68 774	27 640	76 923	21 656
Machine operators and tenders, except precision	271 436	164 750	724 929	669 955	66 130	52 631	92 157	10 488	58 554	20 886	66 567	15 563
Metalworking and plastic working machine operators	1 846	822	801	519	368	181	1 512	153	729	176	846	210
Lathe and turning machine operators	8	—	—	—	—	—	4	—	57	6	56	2
Lathe and turning machine operators	542	165	129	72	60	10	132	2	57	—	111	17
Milling and planing machine operators	130	23	31	18	—	—	100	5	35	—	2	—
Punching and stamping press machine operators	174	96	266	187	160	110	319	83	208	88	442	146
Rolling machine operators	22	12	38	28	14	7	46	7	15	7	—	—
Drilling and boring machine operators	36	31	27	7	28	14	77	10	45	13	41	16
Grinding, abrading, buffing, and polishing machine operators	403	117	156	85	74	26	586	28	197	37	150	29
Forging machine operators	20	20	19	19	—	—	34	11	15	7	18	—
Machine tool control machine operators	5	—	16	16	—	—	—	—	13	—	6	—
Metalworking machine operators	486	353	119	87	32	14	194	14	87	18	20	—
Metal and plastic processing machine operators	1 007	111	367	317	101	63	149	33	134	100	450	164
Molding and casting machine operators	853	311	3 884	2 946	510	222	2 050	490	1 761	374	4 381	440
Metal plating machine operators	107	6	3 829	2 915	401	171	1 612	479	1 532	332	4 281	424
Heat treating equipment operators	11	—	55	31	95	51	404	11	207	34	87	16
Miscellaneous metal and plastic processing machine operators	36	12	—	—	11	—	—	—	—	—	6	—
Woodworking machine operators	357	141	362	266	104	53	34	—	22	8	7	—
Wood lathe, routing, and planing machine operators	10	6	—	—	—	—	1 632	158	257	85	468	159
Sawing machine operators	72	24	209	146	34	4	33	5	20	—	7	—
Shaping and joining machine operators	96	57	50	28	6	—	782	83	114	24	356	128
Nailing and tacking machine operators	83	27	52	21	19	19	24	13	30	23	13	8
Miscellaneous woodworking machine operators	96	27	51	51	45	57	11	31	31	31	54	19
Printing machine operators	1 351	507	2 078	1 555	888	366	2 154	290	4 673	800	7 459	361
Printing machine operators	1 207	437	1 966	1 486	787	338	1 855	214	4 108	650	6 201	292
Photoengravers and lithographers	19	9	20	9	19	9	36	6	115	21	201	9
Typesetters and compositors	98	52	76	53	49	9	85	33	131	50	128	5
Miscellaneous printing machine operators	220 540	143 976	661 693	420 308	38 388	294	1 454	79	319	79	694	55
Textile, apparel, and furnishings machine operators	78 116	60 586	661 693	420 308	38 388	294	1 454	79	319	79	694	55
Winding and twisting machine operators	40 598	25 823	1 542	997	805	525	391	31	683	154	55	24
Knitting, looping, taping, and weaving machine operators	2 784	1 221	612 937	586 871	39 869	36 478	20	20	7	—	6	3
Textile cutting machine operators	27 934	24 560	612 937	586 871	39 869	36 478	379	196	1 033	845	433	223
Shoe machine operators	240	174	646	619	75	64	—	—	9	—	14	8
Pressing machine operators	534	324	35 296	24 935	387	305	13	—	22	12	27	—
Laundering and dry cleaning machine operators	240	124	1 086	668	76	28	21	—	14	14	46	11
Miscellaneous textile machine operators	70 094	31 164	8 578	5 071	1 159	668	606	47	556	103	222	44
Machine operators, assorted materials	46 170	18 864	55 744	44 044	21 282	13 363	83 206	9 070	48 649	18 236	52 075	13 889
Cementing and gluing machine operators	336	195	673	556	312	252	1 030	343	845	333	2 970	994
Packaging and filling machine operators	1 168	703	1 572	1 345	463	388	1 968	335	1 247	741	2 222	644
Extruding and forming machine operators	262	66	203	128	93	12	277	2	200	62	173	15
Mixing and blending machine operators	6 555	648	817	273	326	71	1 345	84	903	27	448	50
Separating, filtering, and clarifying machine operators	263	26	275	50	88	51	1 086	27	131	24	236	87
Compressing and compacting machine operators	685	188	185	106	106	36	753	84	776	148	895	54
Painting and painting machine operators	524	163	335	145	151	66	1 486	60	615	61	412	124
Roasting and baking machine operators	15	7	—	—	5	—	15	2	—	—	—	—
Washing, cleaning, and pickling machine operators	303	58	291	124	25	20	736	21	78	6	29	5

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.																				
Textile mill products—Con.			Apparel and other finished textile products			Paper and allied products			Paperboard containers and boxes											
Miscellaneous textile mill products			Apparel and accessories, except knit			Miscellaneous fabricated textile products				Pulp, paper, and paperboard mills			Miscellaneous paper and pulp products							
Yarn, thread, and fabric mills			Total			Female			Total			Female			Total			Female		
			Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
Employed persons 16 years and over—Con.																				
Operators, fabricators, and laborers—Con.																				
Machine operators, assemblers, and inspectors—Con.																				
Machine operators and tenders, except precision—Con.																				
Machine operators and tenders, except materials—Con.																				
Folding machine operators			506	421	38	29	5 529	5 177	1 708	1 583	845	363	2 582	1 859	3 588	1 299				
Curtain, knit, and oven operators, except food			878	53	116	34	171	49	92	6	3 812	42	516	55	388	2				
Crustling and grinding machine operators			360	148	25	—	110	61	51	18	1 376	46	418	27	215	2				
Slicing and curving machine operators			3 026	1 389	733	381	10 016	7 456	4 972	2 930	8 430	727	4 967	738	4 972	766				
Motion picture projectionists			91	40	20	20	554	485	58	43	56	41	90	25	71	8				
Photographic process machine operators			12 101	6 333	2 193	1 015	9 615	7 354	3 201	1 892	33 589	2 594	12 536	4 127	13 089	2 977				
Miscellaneous machine operators, n.e.c.			19 096	8 446	3 120	1 122	25 558	20 656	9 631	5 996	27 392	4 279	22 243	10 025	23 367	6 885				
Machine operators, not specified																				
Fabricators, assemblers, and hand working occupations			5 981	2 316	1 301	607	11 669	9 211	5 457	3 631	6 589	1 464	5 077	2 957	6 707	3 424				
Welders and others			1 401	145	131	3	384	118	292	34	2 910	47	607	51	454	11				
Solders and brazers			26	15	—	—	42	36	22	11	22	10	14	—	17	—				
Assemblers			3 981	1 947	1 086	551	8 267	6 694	4 403	3 123	2 705	1 316	4 142	2 743	5 908	3 238				
Hand cutting and trimming occupations			123	69	36	31	1 557	1 300	139	68	78	9	18	5	30	13				
Hand molding, casting, and forming occupations			63	21	—	—	65	32	77	50	17	6	21	14	148	71				
Hand painting, coating and decorating occupations			80	24	17	—	258	212	80	62	180	15	159	117	60	38				
Hand engraving and printing occupations			41	5	—	—	—	—	—	—	6	—	26	—	16	—				
Hand grinding and polishing occupations			41	22	9	—	—	—	25	18	8	—	—	—	16	—				
Miscellaneous hand working occupations			225	68	22	22	1 096	819	419	265	663	61	90	27	67	42				
Production inspectors, testers, samplers, and weighers			25 883	19 816	2 107	1 264	44 940	42 040	5 020	4 255	5 698	2 509	5 143	3 797	3 649	2 669				
Production inspectors, checkers, and examiners			22 272	17 149	1 785	1 086	41 597	39 435	4 522	3 855	3 742	1 694	4 539	3 422	3 269	2 449				
Production testers			410	272	31	20	74	45	11	8	645	130	123	61	41	20				
Production samplers and weighers			527	318	59	8	454	422	190	146	118	60	137	85	66	20				
Graders and sorters, except agricultural			2 674	2 077	232	150	2 815	2 138	297	246	1 173	625	344	229	273	180				
Transportation and material moving occupations			15 088	1 815	1 919	167	15 105	6 841	3 155	750	22 527	976	7 758	817	15 166	716				
Motor vehicle operators			4 589	161	711	13	4 540	145	1 150	46	7 810	167	2 565	121	6 557	56				
Supervisors, motor vehicle operators			5	—	—	—	—	—	7	—	30	—	6	—	—	—				
Truck drivers, heavy			3 923	114	514	11	2 644	50	770	22	6 694	133	1 977	67	5 068	50				
Truck drivers, light			406	9	156	2	1 473	75	313	14	839	28	446	42	2 064	6				
Driver-sales workers			125	—	18	—	158	15	21	3	5	—	15	6	41	—				
Bus drivers			10	2	—	—	14	5	—	—	—	—	23	5	—	—				
Taxicab drivers and chauffeurs			88	18	23	—	234	7	39	7	238	6	98	1	172	—				
Parking lot attendants			20	18	—	—	17	—	—	—	4	—	—	—	12	—				
Motor transportation occupations, n.e.c.			12	—	—	—	—	—	—	—	—	—	—	—	—	—				
Rail transportation occupations			86	6	6	—	14	14	—	—	211	6	20	—	7	—				
Railroad conductors and yardmasters			—	—	—	—	—	—	—	—	29	—	—	—	—	—				
Locomotive operating occupations			80	—	6	—	6	6	—	—	62	2	—	—	—	—				
Railroad brake, signal, and switch operators			6	6	—	—	8	8	—	—	120	4	20	—	7	—				
Rail vehicle operators, n.e.c.			—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Water transportation occupations			49	8	—	—	11	—	7	—	107	16	12	—	—	—				
Ship captains and mates, except fishing boats			6	6	—	—	—	—	—	—	46	—	6	—	—	—				
Sailors and deckhands			5	—	—	—	—	—	—	—	16	8	—	—	—	—				
Marine engineers			20	—	—	—	3	—	—	—	35	8	6	—	—	—				
Bridge, lock, and lighthouse tenders			18	2	—	—	8	—	—	—	10	—	—	—	—	—				
Material moving equipment operators			10 364	1 640	1 202	154	10 540	6 682	1 998	704	14 399	787	5 161	696	8 602	660				
Supervisors, material moving equipment operators			29	6	20	—	99	43	16	2	330	6	29	—	64	5				
Operating engineers			25	—	—	—	122	115	7	2	239	—	52	—	24	—				
Longshore equipment operators			—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Hoist and winch operators			33	7	—	—	—	—	—	—	9	—	36	—	12	—				
Crane and tower operators			82	14	8	—	19	6	6	—	1 545	15	171	—	137	7				
Excavating and loading machine operators			66	8	5	4	17	8	8	—	246	3	71	2	8	—				
Grader, dozer, and scraper operators			48	—	7	—	6	2	—	—	365	—	8	—	17	—				
Industrial truck and tractor equipment operators			4 979	234	735	18	1 233	129	764	36	8 399	431	3 527	412	6 840	336				
Miscellaneous material moving equipment operators			5 102	1 371	427	132	9 044	6 379	1 197	658	3 225	323	1 267	282	1 500	312				

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
Machine operators, assemblers, and inspectors—Con.
Machine operators and tenders, except precision—Con.
Machine operators and tenders, except materials—Con.

Folding machine operators
Furnace, kiln, and oven operators, except food

Crushing and grinding machine operators
Slicing and cutting machine operators

Motion picture projectionists
Photographic process machine operators

Miscellaneous machine operators, n.e.c.
Machine operators, not specified

Fabricators, assemblers, and hand working occupations
Welders and cutters

Solderers and brazers
Assemblers

Hand cutting and trimming occupations
Hand molding, casting, and forming occupations

Hand painting, coating and decorating occupations
Hand engraving and printing occupations

Hand grinding and polishing occupations
Miscellaneous hand working occupations

Production inspectors, testers, samplers, and weighers
Production inspectors, checkers, and examiners

Production testers
Production samplers and weighers

Graders and sorters, except agricultural
Transportation and material moving occupations

Motor vehicle operators
Supervisors, motor vehicle operators

Truck drivers, heavy
Truck drivers, light

Driver-sales workers
Bus drivers

Taxicab drivers and chauffeurs
Parking lot attendants

Motor transportation occupations, n.e.c.
Rail transportation occupations

Railroad conductors and yardmasters
Locomotive operating occupations

Railroad brake, signal, and switch operators
Rail vehicle operators, n.e.c.

Water transportation occupations
Ship captains and mates, except fishing boats

Sailors and deckhands
Marine engineers

Bridge, lock, and lighthouse tenders
Material moving equipment operators

Supervisors, material moving equipment operators
Operating engineers

Longshore equipment operators
Crane and derrick operators

Excavating and loading machine operators
Grader, dozer, and scraper operators

Industrial truck and tractor equipment operators
Miscellaneous material moving equipment operators

Employed persons 16 years and over—Con

Operators, fabricators, and laborers—Construction	-----
Shovelers, equipment helpers, and laborers	-----
Spawards, handlers, equipment cleaners, and laborers, n.e.c.	-----
Helpers, mechanics and repairers	-----
Helpers, construction and extractive occupations	-----
Helpers, construction trades	-----
Helpers, surveyor	-----
Helpers, extractive occupations	-----
Construction laborers	-----
Production helpers	-----
Freight, stock, and material handlers	-----
Garbage collectors	-----
Stevedores	-----
Stock handlers and baggers	-----
Machine readers and order clerks	-----
Freight, stock, and material handlers, n.e.c.	-----
Garage and service station related occupations	-----
Vehicle washers and equipment cleaners	-----
Hand packers and packagers	-----
Laborers, except construction	-----

OCCUPATION BY INDUSTRY

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

Manufacturing, nondurable goods—Con.														
Printing, publishing, and allied industries				Chemicals and allied products										
Newspaper publishing and printing		Printing, publishing, and allied industries, except newspapers		Plastics, synthetics, and resins		Drugs		Soaps and cosmetics		Paints, varnishes, and related products		Agricultural chemicals		
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
Employed persons 16 years and over														
510 125	208 252	1 020 904	417 055	233 943	70 156	204 429	85 151	134 542	61 537	76 064	17 604	68 352	12 553	
150 776	54 942	212 710	77 164	33 500	4 248	52 473	12 452	27 780	7 053	14 501	2 136	14 260	1 946	
49 854	14 176	123 006	32 969	19 629	2 773	27 549	5 803	18 620	4 471	9 887	1 496	9 309	1 237	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
6	—	—	—	5	—	—	—	5	—	—	—	—	—	
1 254	469	3 881	1 218	616	114	1 284	203	874	164	563	88	409	50	
926	381	2 177	843	576	124	1 010	293	602	197	263	55	231	22	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
68	4	731	143	190	18	353	60	218	15	96	12	64	—	
18 796	4 461	15 045	3 677	1 703	144	4 263	495	3 247	711	1 391	78	950	37	
19	13	94	45	21	6	18	—	36	18	5	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
45	8	123	4	3	—	—	—	20	—	—	—	14	7	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
5	—	20	—	7	—	9	—	—	—	6	—	8	—	
24 644	6 994	85 826	20 702	12 056	1 266	13 871	2 000	9 565	1 763	5 534	577	5 419	453	
22 298	6 418	73 491	17 861	11 550	1 183	13 794	1 971	9 361	1 700	5 366	552	5 271	431	
2 346	576	12 335	2 841	506	83	77	29	204	63	168	25	148	22	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
4 091	1 841	15 109	6 337	4 452	1 101	6 731	2 752	4 053	1 598	2 029	686	2 214	668	
2 243	1 108	8 019	3 213	1 802	541	3 390	1 169	2 131	700	1 131	442	1 278	466	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
163	81	883	325	143	18	327	131	158	55	96	39	103	29	
197	61	893	233	116	7	308	133	177	113	66	10	31	—	
1 000	363	2 411	1 121	1 382	289	1 152	519	643	328	298	88	369	81	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
291	126	2 590	1 145	762	207	859	336	795	322	425	107	302	81	
125	43	311	158	13	5	58	25	13	6	—	—	15	—	
—	—	12	6	21	—	—	—	—	—	—	—	20	—	
8	8	94	46	133	22	543	394	65	31	8	—	72	11	
64	51	123	76	80	12	88	41	71	43	5	—	24	—	
100 922	40 766	89 704	44 195	13 871	1 475	24 924	6 649	9 160	2 582	4 614	640	4 951	709	
Engineers, architects, and surveyors	449	3 587	443	8 813	351	5 133	413	3 379	389	1 464	85	2 243	83	
Architects	12	39	13	32	—	78	21	—	—	8	—	—	—	
Engineers	429	3 533	430	8 775	351	5 055	413	3 358	389	1 456	85	2 243	83	
Aerospace engineers	—	6	—	—	7	—	—	—	—	—	—	—	—	
Metallurgical and materials engineers	—	11	5	29	2	—	—	32	—	5	—	8	—	
Mining engineers	7	—	3	13	—	7	—	—	—	—	—	21	—	
Petroleum engineers	—	—	—	—	—	—	—	6	—	—	—	—	—	
Chemical engineers	—	161	11	5 491	190	2 640	122	1 495	102	855	30	1 473	46	
Nuclear engineers	—	—	—	33	—	—	5	90	—	18	—	64	7	
Civil engineers	24	64	—	179	19	173	5	—	—	5	—	5	—	
Agricultural engineers	—	—	—	5	—	—	—	—	—	—	—	—	—	
Electrical and electronic engineers	—	16	—	—	—	—	—	—	—	—	—	—	—	
93	—	315	6	372	11	204	25	128	25	100	7	60	—	
130	42	1 603	388	1 135	94	1 198	251	1 002	239	248	37	299	30	
66	—	593	5	843	11	326	7	228	71	71	—	95	—	
—	—	—	—	—	—	—	—	2	2	—	—	—	—	
Marine engineers and naval architects	—	—	—	—	—	—	—	—	—	—	—	—	—	
Engineers, n.e.c.	109	6	756	15	675	500	28	375	21	154	11	211	—	
Surveyors and mapping scientists	8	15	—	6	—	—	—	—	—	—	—	—	—	
Mathematical and computer scientists	584	160	2 251	656	125	2 341	621	621	216	227	76	332	109	
Computer systems analysts and scientists	308	53	1 277	312	389	59	347	315	81	145	43	196	54	
Operations and systems researchers and analysts	121	20	673	209	42	587	113	226	83	49	20	96	20	
Actuaries	5	—	—	—	—	2	9	16	—	—	—	—	—	
Statisticians	150	87	274	181	53	455	156	64	43	20	13	40	35	
Mathematical scientists, n.e.c.	—	—	27	22	5	12	5	—	—	—	—	—	—	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

Manufacturing, nondurable goods—Con.													
Printing, publishing, and allied industries				Chemicals and allied products									
Newspaper publishing and printing		Printing, publishing, and allied industries, except newspapers		Plastics, synthetics, and resins		Drugs		Soaps and cosmetics		Paints, varnishes, and related products		Agricultural chemicals	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
28	7	412	117	2 560	337	11 213	3 359	2 624	728	2 316	209	1 730	302
—	—	24	12	55	—	27	—	—	—	8	—	13	—
—	—	313	50	2 405	316	7 186	1 880	2 299	565	2 294	209	1 311	237
4	1	12	2	7	—	27	20	—	—	—	—	6	—
—	—	28	28	13	6	40	6	11	6	—	—	20	—
6	6	14	12	46	15	98	18	13	11	—	—	28	8
3	—	11	5	12	—	2 802	1 097	195	107	14	—	177	12
—	—	—	—	—	—	—	—	—	—	—	—	154	37
8	—	2	2	22	—	1 022	332	106	39	—	—	21	8
—	—	—	—	—	—	—	—	—	—	—	—	—	—
23	8	55	23	87	6	906	107	53	12	7	—	28	7
12	—	19	—	87	6	571	79	43	8	7	—	21	—
—	—	15	9	—	—	15	—	10	4	—	—	—	—
—	—	—	—	—	—	286	16	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	6	14	14	—	—	7	2	—	—	—	—	—	—
5	2	7	—	—	—	32	10	—	—	—	—	7	—
255	140	353	270	265	251	1 314	552	199	191	66	48	36	23
250	135	307	252	245	245	415	353	186	186	48	43	30	23
—	—	8	8	—	—	831	177	—	—	—	—	—	—
—	—	—	6	14	6	27	11	—	—	10	5	—	—
5	5	30	4	6	—	19	11	1	5	8	—	6	—
—	—	—	—	—	—	22	—	12	5	—	—	—	—
24	12	103	62	20	8	17	—	—	—	—	—	—	—
64	27	428	245	101	50	130	36	64	36	19	12	34	11
6	—	10	5	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	7	5	—	—	—	—
58	27	418	240	101	50	130	36	57	31	19	12	34	11
97	35	194	108	6	6	—	—	7	7	—	—	—	—
449	319	426	310	89	75	275	229	61	51	16	13	22	22
449	319	368	261	89	75	270	224	61	51	16	13	17	17
—	—	58	49	—	—	5	5	—	—	—	—	5	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
411	218	1 751	793	385	83	1 101	386	641	230	117	22	177	30
368	213	1 655	742	372	83	1 054	361	616	225	117	22	170	30
18	5	22	17	2	—	24	8	10	5	—	—	—	—
—	—	6	6	2	—	—	—	—	—	—	—	—	—
25	—	52	28	11	—	20	14	9	—	—	—	—	—
—	—	16	—	—	—	3	3	6	—	—	—	—	—
72	40	468	121	13	—	22	7	7	7	—	—	2	—
33	12	86	26	—	—	17	7	7	7	—	—	8	8
27	21	20	14	7	—	—	—	—	—	—	—	—	—
5	—	301	66	6	—	5	—	—	—	—	—	—	—
7	7	61	15	—	—	—	—	—	—	—	—	8	8
144	28	494	114	151	7	659	104	287	48	67	—	86	31
144	28	494	114	151	7	659	104	287	48	67	—	86	31
—	—	—	—	—	—	—	—	—	—	—	—	—	—
98 322	39 724	79 182	40 843	725	176	1 813	835	1 217	667	315	175	255	83
965	478	2 335	1 066	—	—	34	22	7	—	—	—	—	—
1 405	702	2 848	1 106	48	17	390	289	53	31	5	—	21	—
2 672	1 479	12 364	5 777	369	45	420	88	528	240	118	56	62	31
107	50	757	207	14	6	5	5	—	—	—	—	—	—
—	—	—	—	—	—	6	6	—	—	—	—	—	—
14	—	57	39	6	16	109	64	130	73	104	65	41	13
4 698	2 202	16 900	9 086	59	16	—	—	—	—	—	—	—	—
6 676	1 246	3 537	835	24	2	77	5	37	8	—	—	16	6
14	7	—	—	2	2	—	—	—	—	—	—	—	—
278	148	1 062	534	56	47	32	14	120	95	26	24	56	33
80 113	32 899	36 161	20 640	147	41	235	179	342	220	62	30	59	—
1 277	475	3 091	1 536	—	—	505	163	—	—	—	—	—	—
60	31	—	17	—	—	—	—	—	—	—	—	—	—
43	7	33	—	—	—	—	—	—	—	—	—	—	—

Employed persons 16 years and over—Con.

Managerial and professional specialty occupations—Con.

Professional specialty occupations—Con.

Natural scientists

Physicists and astronomers

Chemists, except biochemists

Atmospheric and space scientists

Geologists and geodesists

Physical scientists, n e c

Agricultural and food scientists

Biological and life scientists

Forestry and conservation scientists

Medical scientists

Health diagnosing occupations

Physicians

Dentists

Veterinarians

Optometrists

Podiatrists

Health diagnosing practitioners, n e c

Health assessment and treating occupations

Registered nurses

Pharmacists

Dietitians

Therapists

Physicians' assistants

Teachers, postsecondary

Teachers, except postsecondary

Teachers, kindergarten and kindergarten

Teachers, elementary and secondary school

Teachers, special education

Teachers, n e c

Counselors, educational and vocational

Librarians, archivists, and curators

Archivists and curators

Social scientists and urban planners

Economists

Psychologists

Sociologists

Social scientists, n e c

Urban planners

Social, recreation, and religious workers

Social workers

Recreation workers

Clergy

Religious workers, n e c

Lawyers and judges

Lowerers

Judges

Writers, artists, entertainers, and athletes

Authors

Technical writers

Designers

Musicians and composers

Actors and directors

Painters, sculptors, craft-artists, and artist printmakers

Photographers

Dancers

Artists, performers, and related workers, n e c

Editors and reporters

Public relations specialists

Announcers

Athletes

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Manufacturing, nondurable goods—Con.									
	Printing, publishing, and allied industries					Chemicals and allied products				
	Total	Female	Total	Female	Plastics, synthetics, and resins	Drugs	Soaps and cosmetics	Paints, varnishes, and related products	Total	Female
United States										
Employed persons 16 years and over—Con.										
Technical, sales, and administrative support occupations	216 476	117 166	292 383	183 661	42 721	74 323	38 142	24 434	16 023	7 864
Technicians and related support occupations	3 901	908	16 147	4 911	12 637	18 771	5 109	5 036	3 421	704
Health technologists and technicians	25	10	141	68	52	1 415	33	2	10	—
Clinical laboratory technologists and technicians	—	—	16	10	—	705	8	—	—	—
Dental hygienists	—	—	—	—	—	—	—	—	—	—
Health record technologists and technicians	—	—	—	—	—	—	—	—	—	—
Radiologic technicians	13	6	16	16	—	48	—	—	—	—
Licensed practical nurses	6	6	42	31	39	101	—	—	—	—
Health technologists and technicians, n.e.c.	6	4	60	31	76	553	30	6	—	—
Engineering and related technologists and technicians	2 167	265	9 634	2 321	2 702	2 007	658	612	680	147
Electrical and electronic technicians	1 924	165	5 460	924	378	42 256	77	37	132	12
Industrial engineering technicians	—	—	49	29	205	74	12	17	10	—
Mechanical engineering technicians	18	9	13	13	96	13	42	—	8	—
Engineering technicians, n.e.c.	75	22	1 610	397	1 347	2 200	316	425	314	114
Drafting occupations	123	51	2 438	933	664	469	211	133	196	21
Surveying and mapping technicians	27	18	64	38	12	20	—	—	20	—
Science technicians	14	—	608	231	8 018	11 756	3 221	3 880	2 229	486
Biological technicians	—	—	42	23	158	4 540	21	27	146	32
Chemical technicians	—	—	216	67	7 330	1 667	2 819	3 557	1 984	445
Science technicians, n.e.c.	14	—	350	141	530	580	361	246	89	—
Technicians, except health, engineering, and science	1 695	633	5 764	2 291	1 750	3 593	1 159	503	502	71
Aircraft pilots and navigators	83	—	47	—	22	38	29	13	8	—
Air traffic controllers	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators	67	31	37	6	56	11	—	7	—	—
Computer programmers	996	302	3 200	1 078	419	1 131	536	261	109	186
Tool programmers, numerical control	14	8	102	31	20	29	21	3	—	—
Legal assistants	101	35	176	105	41	81	48	20	12	5
Technicians, n.e.c.	434	257	2 202	1 071	1 192	2 303	525	199	303	16
Sales occupations	110 214	41 003	67 721	18 372	4 390	16 452	7 412	5 630	2 901	269
Supervisors and proprietors, sales occupations	3 253	1 154	3 187	1 215	336	53	508	377	249	32
Salaried	3 136	1 126	2 843	1 131	298	45	576	366	241	32
Self-employed	117	28	344	84	38	8	—	11	8	—
Sales representatives, finance and business services	28 618	14 008	60 585	14 870	23	81	89	48	19	7
Insurance sales occupations	—	—	—	—	—	—	—	—	—	—
Real estate sales occupations	41	19	95	25	18	—	13	11	12	—
Securities and financial services sales occupations	—	—	—	—	—	—	—	—	—	—
Advertising and related sales occupations	28 577	13 989	7 401	2 754	5	81	76	37	7	7
Sales occupations, other business services	—	—	53 089	12 091	—	—	—	—	—	—
Sales representatives, commodities, except retail	150	80	193	21	3 889	15 482	6 468	5 145	2 579	214
Sales engineers	150	80	193	21	178	35	34	35	29	—
Sales representatives, mining, manufacturing, and wholesale	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services	78 172	25 761	3 704	2 239	3 711	15 447	6 434	5 110	2 550	214
Sales workers, commodities	29	15	41	6	96	298	342	40	52	16
Sales counter clerks	42	18	15	30	27	21	24	7	23	—
Cashiers	1 370	859	571	501	61	220	143	24	20	16
Street and door-to-door sales workers	—	—	1 899	1 234	8	43	169	9	2	—
News vendors	76 731	24 884	1 178	468	—	8	—	—	7	—
Sales related occupations	21	—	52	27	46	15	5	20	2	—
Demonstrators, promoters and models, sales	9	—	13	5	28	8	—	12	2	—
Auctioneers	—	—	—	—	13	—	—	—	—	—
Sales support occupations, n.e.c.	12	—	28	10	5	7	5	8	—	—
Administrative support occupations, including clerical	102 361	75 255	208 515	160 378	25 694	39 100	25 621	13 768	9 701	6 891
Supervisors, administrative support occupations	5 333	2 491	10 967	5 548	1 617	2 484	1 539	1 244	765	234
Supervisors, general office	2 231	1 380	5 745	3 788	641	1 183	622	522	337	167
Supervisors, computer equipment operators	203	49	613	167	101	166	30	58	12	6
Supervisors, financial records processing	824	512	1 572	831	257	542	372	307	196	42
Chief communications operators	58	34	7	7	7	5	—	—	6	—
Supervisors; distribution, scheduling, and adjusting clerks	2 017	516	3 030	755	611	588	456	357	214	19
Computer equipment operators	3 418	1 894	6 546	4 137	1 739	1 275	839	438	366	162
Computer operators	3 220	1 792	5 888	3 659	708	1 193	808	349	349	151
Peripheral equipment operators	198	102	658	478	31	82	31	26	17	11

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.

United States

Manufacturing, nondurable goods—Con

Printing, publishing, and allied industries				Chemicals and allied products							
Newspaper publishing and printing		Printing, publishing, and allied industries, except newspapers		Plastics, synthetics, and resins		Drugs		Soaps and cosmetics		Paints, varnishes, and related products	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.	21 638	21 039	51 059	49 902	7 492	7 434	15 152	15 104	7 998	7 901	3 444	3 405
Administrative support occupations, including clerical—Con	13 295	13 097	37 144	36 539	6 634	6 583	13 968	13 920	7 164	7 080	2 987	2 954
Secretaries, stenographers, and typists.....	221	139	421	402	274	274	92	92	42	42	68	68
Stenographers.....	8 122	7 803	13 494	12 961	584	577	1 092	1 092	792	779	424	418
Typists.....	4 586	4 167	6 739	6 135	479	428	787	673	544	501	334	321
Information clerks.....	439	356	1 348	991	36	29	157	136	94	83	25	18
Interviewers.....	—	—	—	—	—	—	—	—	—	—	—	—
Hotel clerks.....	26	5	70	37	28	15	37	19	20	6	2	4
Transportation ticket and reservation agents.....	2 728	2 658	4 364	4 282	387	372	453	434	380	375	301	297
Receptionists.....	1 993	1 148	957	28	28	12	140	84	50	37	6	6
Information clerks, n.e.c.....	—	—	—	—	—	—	—	—	—	—	—	—
Records processing occupations, except financial.....	11 514	9 282	14 867	11 932	1 659	1 070	2 724	2 098	1 926	1 537	837	458
Classified-ad clerks.....	6 223	5 389	477	338	20	6	42	36	8	8	20	13
Correspondence clerks.....	68	61	479	440	55	44	83	66	105	105	43	17
Order clerks.....	884	687	5 898	4 637	541	394	966	735	979	840	464	275
Personnel clerks, except payroll and timekeeping.....	151	151	362	357	125	120	187	167	138	120	40	38
Librarians.....	984	783	605	441	7	7	61	51	24	24	8	8
File clerks.....	937	703	5 503	4 417	892	492	1 202	895	532	336	249	94
Records clerks.....	2 267	1 508	1 543	1 282	19	7	183	148	140	104	13	11
Financial records processing occupations.....	12 357	11 317	28 624	25 833	3 192	2 735	3 241	2 892	3 026	2 681	2 304	2 066
Bookkeepers, accounting, and auditing clerks.....	10 302	9 518	22 488	20 856	2 271	2 192	2 502	2 192	2 181	1 966	1 195	1 046
Payroll and timekeeping clerks.....	667	511	1 586	1 418	271	227	443	422	346	311	166	158
Billing clerks.....	1 254	1 161	3 005	2 625	279	245	233	222	268	244	225	191
Cost and rate clerks.....	49	42	928	600	99	56	44	37	189	127	117	96
Billing, posting, and calculating machine operators.....	85	85	417	334	22	15	19	19	42	33	23	23
Duplicating, mail, and other office machine operators.....	1 353	768	2 693	1 398	60	52	170	123	90	61	50	37
Duplicating machine operators.....	17	7	1 322	657	14	13	77	50	17	11	15	8
Mail preparing and paper handling machine operators.....	1 218	695	825	453	—	—	14	14	11	6	—	—
Office machine operators, n.e.c.....	118	66	546	288	46	39	79	59	62	44	35	29
Communications equipment operators.....	2 006	1 898	1 010	938	163	135	126	102	123	114	60	57
Telephone operators.....	1 992	1 844	1 003	931	145	129	107	102	123	114	60	57
Telegraphers.....	14	14	—	—	18	6	—	—	—	—	—	—
Communications equipment operators, n.e.c.....	—	—	7	7	—	—	19	—	—	—	—	—
Mail and message distributing occupations.....	12 440	2 806	11 157	4 696	363	169	727	314	482	286	151	86
Postal clerks, except mail carriers.....	—	—	—	—	—	—	—	—	—	—	—	—
Mail carriers, except postal service.....	10 647	2 225	8 203	4 195	279	147	640	299	445	263	146	86
Mail clerks, except postal service.....	1 793	581	2 954	501	84	22	87	15	37	23	5	3
Messengers.....	3 735	1 629	27 137	10 593	6 310	1 708	5 632	2 234	5 033	2 052	2 990	756
Material recording, scheduling, and distributing clerks.....	1 433	222	7 462	82	30	7	36	12	34	19	19	8
Dispatchers.....	1 634	821	7 462	4 066	1 389	542	1 066	496	696	352	398	170
Production coordinators.....	628	116	12 135	2 990	2 899	597	2 036	499	2 196	634	590	202
Traffic, shipping, and receiving clerks.....	395	91	5 084	1 879	1 354	360	1 749	812	1 606	790	806	291
Stock and inventory clerks.....	—	—	—	—	—	—	—	—	—	—	—	—
Meter readers.....	141	55	911	661	300	68	351	121	234	99	61	16
Weights, measurers, and checkers.....	8	8	23	12	2	2	316	219	235	148	111	64
Samplers.....	—	—	—	—	275	117	—	—	—	—	—	—
Expeditors.....	487	316	1 313	866	—	—	—	—	—	—	—	—
Material recording, scheduling, and distributing clerks, n.e.c.....	9	—	61	37	—	—	78	75	32	22	5	5
Adjusters and investigators.....	1 760	993	3 722	2 398	341	137	655	445	483	397	165	85
Insurance adjusters, examiners, and investigators.....	—	—	—	—	—	—	—	—	—	—	—	—
Investigators and adjusters, except insurance.....	908	575	3 005	1 847	251	91	554	368	383	319	148	78
Eligibility clerks, social welfare.....	27	27	—	—	—	—	—	—	—	—	—	—
Bill and account collectors.....	825	391	717	551	90	46	101	77	100	78	17	7
Miscellaneous administrative support occupations.....	22 221	17 011	43 994	36 868	3 279	2 350	6 127	5 101	3 538	2 993	1 751	1 388
General office clerks.....	8 496	7 008	19 600	17 206	1 916	1 514	2 967	2 572	1 944	1 647	1 025	802
Bank tellers.....	—	—	—	—	—	—	—	—	—	—	—	—
Proofreaders.....	4 295	3 363	10 902	8 573	13	13	116	108	20	12	—	—
Data-entry keyers.....	2 508	2 102	7 301	6 634	613	564	1 486	1 385	833	818	452	423
Statistical clerks.....	788	515	2 150	1 600	203	84	446	355	186	136	78	53
Teachers' aides.....	30	30	14	6	10	6	6	6	6	6	6	6
Administrative support occupations, n.e.c.....	6 104	3 993	4 027	2 849	—	175	1 171	675	549	374	199	110

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

349

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Printing, publishing, and allied industries				Chemicals and allied products							
	Newspaper publishing and printing		Printing, publishing, and allied industries, except newspapers		Plastics, synthetics, and resins		Drugs		Soaps and cosmetics		Paints, varnishes, and related products	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States												
Employed persons 16 years and over—Con.												
Farming, forestry, and fishing occupations—Con.												
Supervisors, mechanics and related workers	11	5	3	—	18	6	—	—	4	—	—	—
Forestry workers, except logging	11	5	—	—	12	—	—	—	—	—	—	—
Timber cutting and logging occupations	6	—	22	—	6	6	—	—	4	—	—	—
Fishers, hunters, and trappers	6	—	—	—	—	—	12	—	—	—	—	—
Captains and other officers, fishing vessels	—	—	—	—	—	—	—	—	—	—	—	—
Fishers	6	—	22	—	—	—	—	—	—	—	—	—
Hunters and trappers	—	—	—	—	—	—	—	—	—	—	—	—
Precision production, craft, and repair occupations												
Mechanics and repairers	24 182	4 164	100 667	28 327	44 383	3 349	21 643	3 214	14 619	2 107	9 470	581
Supervisors, mechanics and related workers	3 361	159	9 562	784	12 216	310	4 850	211	4 411	161	1 747	43
Mechanics and repairers, except supervisors	116	—	133	—	257	—	176	—	132	—	133	—
Vehicle and mobile equipment mechanics and repairers	3 245	159	9 409	782	11 919	510	4 634	203	4 279	161	1 714	43
Automobile mechanics	607	38	228	10	428	21	177	—	208	6	117	5
Bus, truck, and stationary engine mechanics	476	4	231	8	179	13	127	—	104	—	50	—
Aircraft engine mechanics	78	—	23	—	60	—	7	—	12	—	7	—
Small engine repairers	2	—	10	—	6	—	—	—	5	—	—	—
Aircraft mechanics, except engine	13	—	25	—	31	—	2	—	5	—	—	—
Automobile body and related repairers	—	—	—	—	—	—	—	—	—	—	—	—
Aircraft mechanics, except engine	38	34	116	2	120	6	49	—	63	—	19	—
Heavy equipment mechanics	—	—	—	—	—	—	—	—	—	—	—	—
Farm equipment mechanics	—	—	3	—	18	—	6	—	19	—	12	—
Industrial machinery repairers	1 443	82	5 762	358	5 362	223	2 263	70	2 346	77	778	6
Machinery maintenance occupations	30	—	166	19	128	19	95	17	91	14	46	6
Electrical and electronic equipment repairers	331	6	407	55	348	36	93	19	106	18	—	—
Electronic repairers, communications and industrial equipment	91	—	119	14	232	18	35	—	48	7	—	—
Data processing equipment repairers	201	6	195	25	33	6	7	—	6	6	—	—
Household appliance and power tool repairers	—	—	—	—	12	—	9	7	37	5	—	—
Telephone line installers and repairers	—	—	—	—	—	—	—	—	—	—	—	—
Telephone installers and repairers	21	—	57	6	33	5	25	—	9	—	—	—
Miscellaneous electrical and electronic equipment repairers	18	—	36	10	38	7	17	12	6	—	—	—
Heating, air conditioning, and refrigeration mechanics	118	—	44	—	127	9	273	—	42	—	—	—
Miscellaneous mechanics and repairers	716	33	2 602	340	5 534	202	1 733	97	1 486	46	6	—
Camera, watch, and musical instrument repairers	47	—	89	33	172	16	56	—	19	—	26	—
Locksmiths and safe repairers	—	—	7	—	—	—	3	—	—	—	5	—
Office machine repairers	6	6	135	9	19	—	14	—	11	—	—	—
Mechanical controls and valve repairers	—	—	—	—	—	—	2	—	—	—	—	—
Elevator installers and repairers	11	—	22	—	32	6	13	—	—	—	17	—
Millwrights	40	—	274	41	1 292	26	254	35	145	7	220	16
Specified mechanics and repairers, n.e.c.	303	7	967	208	1 992	109	606	11	453	15	128	—
Not specified mechanics and repairers	309	20	1 108	49	2 063	45	785	49	858	24	397	10
Construction trades, except supervisors	1 877	48	3 356	214	5 705	179	2 520	65	1 521	41	1 933	115
Supervisors, construction occupations	158	2	185	5	292	—	123	—	62	—	56	—
Supervisors; brickmasons, stonemasons, and tile setters	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors; carpenters and related workers	2	—	4	—	13	—	4	—	—	—	—	—
Supervisors; electricians and power transmission installers	35	—	64	5	127	—	14	—	33	—	8	—
Supervisors; painters, paperhangers, and plasterers	—	—	12	—	—	—	—	—	—	—	1	—
Supervisors; plumbers, pipefitters, and steamfitters	19	—	105	—	12	—	105	—	29	—	42	—
Supervisors, n.e.c.	102	2	105	—	140	—	—	—	—	—	—	—
Construction trades, except supervisors	1 719	46	3 171	209	5 413	179	2 397	65	1 459	41	1 897	115
Brickmasons and stonemasons	27	5	23	11	51	—	35	—	13	—	12	—
Tile setters, hard and soft	—	—	—	—	—	—	—	—	—	—	—	—
Carpet installers	4	—	—	—	21	9	—	—	—	—	—	—
Carpenters	366	24	492	27	478	6	377	—	134	5	83	—
Drywall installers	6	—	27	6	11	3	—	—	639	11	315	6
Electricians	978	6	1 419	17	2 420	13	790	13	79	5	712	—
Electrical power installers and repairers	—	—	—	—	17	7	—	—	—	—	—	—
Painters, construction and maintenance	170	—	763	90	384	136	189	27	79	6	1 134	92
Paperhangers	6	—	29	5	—	—	—	—	2	—	15	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.													
Printing, publishing, and allied industries				Chemicals and allied products									
Newspaper publishing and printing		Printing, publishing, and allied industries, except newspapers		Plastics, synthetics, and resins		Drugs		Soaps and cosmetics		Paints, varnishes, and related products		Agricultural chemicals	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
Precision production, craft, and repair occupations—Con.													
Construction trades—Con.													
Construction trades, except supervisors—Con.													
5	6	19	7	39	13	5	2	2	7	7	7	—	—
99	6	260	5	1 601	14	917	17	526	224	5 770	423	7 367	320
16	—	—	—	—	—	—	—	—	—	5 022	315	5 611	181
5	—	—	—	—	—	6	—	—	45	483	49	596	22
2	—	13	—	299	—	53	—	45	29	72	—	22	—
—	—	—	—	—	—	—	—	—	—	—	—	6	—
3	—	20	7	—	—	—	—	—	6	—	—	—	—
3	—	10	—	24	—	12	—	—	16	—	6	12	—
18	5	12	12	28	10	13	—	3	—	—	—	—	—
5	—	—	—	13	5	—	—	—	—	—	—	—	—
—	—	72	10	20	19	7	—	9	—	—	—	11	8
12	—	33	10	118	19	—	—	7	—	—	—	57	—
—	—	10	—	—	—	—	—	—	—	—	—	18	—
—	—	2	—	59	4	—	—	—	—	—	—	—	—
—	—	2	—	53	15	6	—	7	—	—	—	6	—
12	—	4	8	6	—	1	—	—	—	—	—	33	8
18 932	3 957	87 716	27 319	26 344	2 641	14 286	—	8 680	5 770	329	31	514	16
16 278	3 445	52 291	10 982	19 507	1 785	11 304	—	6 689	5 022	15	—	15	—
1 856	203	7 915	1 562	4 229	469	1 211	—	1 149	483	7	—	—	—
32	6	671	30	780	20	69	—	71	72	—	—	—	—
1 104	47	2 644	330	2 918	398	959	82	985	52	—	—	—	—
7	—	23	—	74	—	21	—	13	15	—	—	—	—
—	—	61	6	56	3	5	—	—	7	—	—	—	—
137	99	349	183	16	11	5	—	—	—	—	—	—	—
9	—	29	15	35	7	—	—	—	51	—	18	—	—
501	48	3 961	966	301	21	152	—	74	9	—	—	6	—
60	—	103	6	16	—	—	—	—	—	—	—	33	—
—	—	2	—	—	—	—	—	—	—	—	—	—	—
6	6	95	8	61	9	—	—	—	14	—	5	—	—
—	—	—	—	29	—	—	—	—	2	—	—	—	—
6	6	18	—	21	9	—	—	—	5	—	—	—	—
—	—	—	—	11	—	—	—	—	—	—	—	—	—
—	—	77	8	—	—	—	—	—	—	—	—	—	—
11	5	137	107	97	42	105	96	49	29	22	22	7	—
5	5	86	78	47	33	10	10	4	4	—	—	—	—
—	—	10	5	—	—	4	—	—	—	—	—	—	—
—	—	4	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	—	11	11	39	9	91	86	38	29	24	17	7	—
—	—	10	4	—	—	—	—	—	—	—	—	—	—
—	—	16	9	—	—	—	—	—	—	—	—	—	—
461	273	26 178	14 483	174	74	51	29	52	11	12	—	2	—
10	—	37	—	16	8	5	—	6	—	5	—	—	—
—	—	318	106	15	7	3	—	8	—	—	—	—	—
—	—	—	—	5	2	—	—	—	—	—	—	—	—
12	—	25	16	—	—	—	—	—	—	—	—	—	—
410	259	25 365	14 169	12	8	—	—	23	7	—	—	—	—
—	—	40	—	58	37	6	—	8	—	—	—	—	—
29	2	362	152	67	12	37	20	—	—	7	—	2	—
67	10	272	70	75	11	23	—	27	6	7	—	9	—
41	2	146	31	41	23	—	—	21	7	7	—	9	—
26	8	120	39	34	11	—	—	6	—	—	—	—	—
—	—	6	—	—	—	—	—	—	—	—	—	—	—
24	—	96	43	116	53	9	—	41	14	15	—	18	10
18	—	96	43	105	53	9	—	41	14	15	—	18	10
6	—	—	—	11	—	—	—	—	—	—	—	—	—

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Construction trades—Con.

Construction trades, except supervisors—Con.

Plasterers

Plumbers, pipefitters, and steamfitters

Concrete and terrazzo finishers

Glaziers

Insulation workers

Paving, surfacing, and tamping equipment operators

Roofers

Sheetmetal duct installers

Structural metal workers

Drillers, earth

Construction trades, n.e.c.

Extractive occupations

Supervisors, extractive occupations

Drillers, oil well

Explosives workers

Mining machine operators

Mining occupations, n.e.c.

Precision production occupations

Supervisors, production occupations

Precision metalworking occupations

Tool and die makers

Precision assemblers, metal

Machinists

Boilermakers

Precision grinders, filers, and tool sharpeners

Patternmakers and model makers, metal

Lay-out workers

Precision stones and metals workers (jewelers)

Engravers, metal

Sheet metal workers

Miscellaneous precision metal workers

Precision woodworking occupations

Pottermakers and model makers, wood

Cabinet makers and bench carpenters

Furniture and wood finishers

Miscellaneous precision woodworkers

Precision textile, apparel, and furnishings machine workers

Dressmakers

Tailors

Upholsterers

Shoe repairers

Apparel and fabric patternmakers

Miscellaneous precision apparel and fabric workers

Precision workers, assorted materials

Hand molders and shapers, except jewelers

Pottermakers, lay-out workers, and cutters

Optical goods workers

Dental laboratory and medical appliance technicians

Bookbinders

Electrical and electronic equipment assemblers

Miscellaneous precision workers, n.e.c.

Precision food production occupations

Butchers and meat cutters

Bakers

Food batchmakers

Precision inspectors, testers, and related workers

Inspectors, testers, and graders

Adjusters and calibrators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.													
Printing, publishing, and allied industries				Chemicals and allied products									
Newspaper publishing and printing		Printing, publishing, and allied industries, except newspapers		Plastics, synthetics, and resins		Drugs		Soaps and cosmetics		Paints, varnishes, and related products		Agricultural chemicals	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
Precision production, craft, and repair occupations—Con.													
Plant and system operators—Con.													
Water and sewage treatment plant operators—													
Power plant operators—													
Stationary engineers—													
Miscellaneous plant and system operators—													
Operators, fabricators, and laborers—													
Machine operators, assemblers, and inspectors—													
Machine operators and tenders, except precision—													
Metalworking and plastic working machine operators—													
Lathe and turning machine set-up operators—													
Lathe and turning machine operators—													
Milling and planing machine operators—													
Punching and stamping press machine operators—													
Rolling machine operators—													
Drilling and boring machine operators—													
Grinding, abrading, buffing, and polishing machine operators—													
Forging machine operators—													
Numerical control machine operators—													
Miscellaneous metal, plastic, stone, and glass working machine operators—													
Fabricating machine operators, n.e.c.—													
Metal and plastic processing machine operators—													
Molding and casting machine operators—													
Metal plating machine operators—													
Heat treating equipment operators—													
Miscellaneous metal and plastic processing machine operators—													
Woodworking machine operators—													
Wood lathe, routing, and planing machine operators—													
Sawing machine operators—													
Shaping and joining machine operators—													
Nailing and tacking machine operators—													
Miscellaneous woodworking machine operators—													
Printing machine operators—													
Photoengraving and lithographers—													
Typesetting and composing machine operators—													
Miscellaneous printing machine operators—													
Textile, apparel, and furnishings machine operators—													
Winding and twisting machine operators—													
Knitting, looping, taping, and weaving machine operators—													
Textile cutting machine operators—													
Textile sewing machine operators—													
Shoe machine operators—													
Pressing machine operators—													
Laundering and dry cleaning machine operators—													
Miscellaneous textile machine operators—													
Machine operators, assorted materials—													
Cementing and gluing machine operators—													
Packaging and filling machine operators—													
Extruding and forming machine operators—													
Mixing and blending machine operators—													
Separating, filtering, and clarifying machine operators—													
Compressing and compacting machine operators—													
Painting and paint spraying machine operators—													
Roasting and baking machine operators, food—													
Washing, cleaning, and picking machine operators—													

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.	
Precision production occupations—Con.	
Plant and system operators	
Water and sewage treatment plant operators	
Power plant operators	
Stationary engineers	
Miscellaneous plant and system operators	
Operators, fabricators, and laborers	
Machine operators, assemblers, and inspectors	
Machine operators and tenders, except precision	
Metallurgical and plastic working machine operators	
Lathe and turning machine set-up operators	
Lathe and turning machine operators	
Milling and planing machine operators	
Planing and stamping press machine operators	
Rolling machine operators	
Drilling and boring machine operators	
Grinding, abrading, buffing, and polishing machine operators	
Forging machine operators	
Numerical control machine operators	
Miscellaneous metal, plastic, stone, and glass working machine operators	
Fabricating machine operators, n.e.c.	
Metal and plastic processing machine operators	
Molding and casting machine operators	
Metal plating machine operators	
Heat treating equipment operators	
Miscellaneous metal and plastic processing machine operators	
Woodworking machine operators	
Wood lathe, routing, and planing machine operators	
Sawing machine operators	
Shaping and joining machine operators	
Nailing and tacking machine operators	
Miscellaneous woodworking machine operators	
Printing machine operators	
Printing machine operators	
Photoengravers and lithographers	
Typesetters and compositors	
Miscellaneous printing machine operators	
Textile, apparel, and furnishings machine operators	
Winding and twisting machine operators	
Knitting, looping, and weaving machine operators	
Textile cutting machine operators	
Textile sewing machine operators	
Shoe machine operators	
Pressing machine operators	
Laundry and dry cleaning machine operators	
Miscellaneous textile machine operators	
Machine operators, assorted materials	
Cementing and gluing machine operators	
Packaging and filling machine operators	
Extruding and forming machine operators	
Mixing and blending machine operators	
Separating, filtering, and clarifying machine operators	
Compressing and compacting machine operators	
Painting and paint spraying machine operators	
Roasting and baking machine operators, food	
Washing, cleaning, and picking machine operators	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.											
Printing, publishing, and allied industries				Chemicals and allied products				Agricultural chemicals			
Newspaper publishing and printing		Printing, publishing, and allied industries, except newspapers		Plastics, synthetics, and resins		Drugs		Soaps and cosmetics		Paints, varnishes, and related products	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.											
Operators, fabricators, and laborers—Con.											
Machine operators, assemblers, and inspectors—Con.											
Machine operators and tenders, except precision—Con.											
Machine operators, assorted materials—Con											
Rolling machine operators	403	186	3 730	1 252	81	30	16	63	35	18	18
Furnace, kiln, and oven operators	32	296	296	73	1 138	327	34	276	14	321	10
Crushing and grinding machine operators	47	9	183	26	486	152	13	157	14	786	18
Slicing and cutting machine operators	214	51	8 600	1 282	564	130	58	121	42	169	24
Motion picture projectionists	4 951	2 846	10 705	6 142	101	69	17	29	13	9	6
Photographic process machine operators	3 684	1 880	13 600	6 018	11 621	3 151	1 353	2 383	1 228	1 940	253
Miscellaneous machine operators, n.e.c.	3 636	1 387	23 918	11 023	29 751	9 081	5 146	2 253	5 396	3 061	604
Machine operators, not specified											
Fabricators, assemblers, and hand working occupations	2 134	1 027	12 874	8 355	9 452	4 780	4 037	9 034	7 267	1 541	670
Welders and cutters	131	7	841	88	1 288	252	—	363	34	274	32
Solders and brazers	9	2	72	32	11	—	—	11	11	13	13
Assemblers	1 717	856	10 425	7 357	7 715	4 521	4 007	8 597	7 196	1 128	604
Hand outfitting and trimming occupations	6	—	85	41	36	45	17	30	19	—	—
Hand molding, casting, and forming occupations	8	—	14	9	163	14	—	9	7	6	6
Hand painting, coating and decorating occupations	248	153	795	512	130	15	6	12	7	103	11
Hand engraving and printing occupations	—	—	262	111	—	—	—	—	—	—	—
Hand grinding and polishing occupations	—	—	6	—	28	—	—	4	—	—	—
Miscellaneous hand working occupations	15	9	374	205	81	25	7	8	—	17	10
Production inspectors, testers, samplers, and weighers	942	511	10 969	8 895	5 918	5 024	3 903	2 497	1 787	646	216
Production inspectors, checkers, and examiners	561	339	9 709	7 886	5 442	4 724	3 691	2 326	1 692	582	194
Production testers	22	8	74	46	140	111	70	73	43	12	5
Production samplers and weighers	—	—	174	159	110	65	46	34	23	25	6
Graders and sorters, except agricultural	359	164	1 012	904	226	124	96	64	29	27	16
Transportation and material moving occupations	18 046	2 361	18 087	2 080	7 395	3 888	695	5 832	906	3 510	133
Motor vehicle operators	15 290	2 052	10 405	764	2 568	1 028	96	1 483	40	1 936	22
Supervisors, motor vehicle operators	1 202	333	68	29	—	18	10	5	—	6	—
Truck drivers, heavy	4 644	230	3 863	100	2 135	625	44	1 034	21	1 334	5
Truck drivers, light	6 795	977	5 345	539	315	278	27	290	6	497	12
Driver-sales workers	2 092	451	392	55	15	23	9	37	6	28	—
Bus drivers	20	7	6	—	7	6	6	2	—	—	—
Toxicab drivers and chauffeurs	497	54	684	41	79	64	—	108	13	71	5
Parking lot attendants	34	—	33	—	6	14	—	—	—	—	—
Motor transportation occupations, n.e.c.	6	—	14	—	11	—	—	7	—	—	—
Rail transportation occupations	7	—	2	—	30	5	—	15	—	11	9
Rail conductors and yardmasters	7	—	—	—	—	—	—	—	—	9	9
Locomotive operating occupations	—	—	—	—	24	—	—	6	—	—	—
Railroad brake, signal, and switch operators	—	—	—	—	6	5	—	9	—	2	—
Rail vehicle operators, n.e.c.	—	—	2	—	—	—	—	—	—	—	—
Water transportation occupations	—	—	27	—	52	13	—	8	—	—	—
Ship captains and mates, except fishing boats	—	—	—	—	—	7	—	—	—	—	—
Sailors and deckhands	—	—	12	—	27	—	—	—	—	—	—
Marine engineers	—	—	15	—	25	6	—	8	—	—	—
Bridge, lock, and lighthouse tenders	—	—	—	—	—	—	—	—	—	—	—
Material moving equipment operators	2 749	309	7 653	1 316	4 745	2 842	599	4 326	866	1 563	102
Supervisors, material moving equipment operators	20	—	155	7	74	77	—	62	10	36	—
Operating engineers	41	—	14	2	72	22	—	6	—	—	—
Longshore equipment operators	—	—	155	3	15	—	—	—	—	—	—
Hoist and winch operators	2	—	—	—	7	—	—	—	—	—	—
Crane and lower operators	—	—	24	2	109	22	4	22	—	62	2
Excavating and loading machine operators	—	—	5	—	20	6	—	15	—	6	—
Grader, dozer, and scraper operators	—	—	—	—	—	—	—	—	—	—	—
Industrial truck and tractor equipment operators	19	27	3 899	272	41	9	—	5	—	185	62
Miscellaneous material moving equipment operators	498	27	—	—	2 621	364	219	2 819	346	1 185	838
	2 169	282	3 395	1 030	1 793	1 355	376	1 397	498	274	32

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con													
Printing, publishing, and allied industries				Chemicals and allied products									
Newspaper publishing and printing		Printing, publishing, and allied industries, except newspapers		Plastics, synthetics, and resins		Drugs		Soaps and cosmetics		Paints, varnishes, and related products		Agricultural chemicals	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
6 322	1 594	35 913	15 797	13 963	5 619	11 223	7 030	13 255	7 720	4 505	936	5 398	806
16	—	40	6	42	—	—	—	12	—	—	—	8	—
13	3	37	—	74	16	40	10	—	—	13	—	13	—
7	—	48	—	34	—	18	—	22	—	38	—	48	—
7	—	48	—	34	—	18	—	22	—	38	—	29	—
—	—	—	—	—	—	—	—	—	—	—	—	19	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
133	—	167	8	246	14	65	7	21	—	41	5	88	—
602	70	5 407	1 285	491	113	238	87	190	50	102	14	117	46
1 788	297	6 145	1 810	1 975	525	1 397	472	1 664	295	566	50	1 422	104
7	—	23	—	3	—	2	2	13	9	—	—	—	—
9	—	—	—	—	—	—	—	—	—	—	—	—	—
208	81	1 438	382	346	89	349	180	339	97	133	24	341	67
482	181	3 154	1 209	894	337	631	211	278	75	64	12	265	18
1 082	35	1 530	219	732	99	415	79	1 034	114	369	14	816	19
87	13	12	6	46	—	2	—	7	7	—	—	2	—
129	5	476	52	469	96	355	140	190	45	106	—	52	11
775	289	11 768	7 354	4 209	2 975	6 869	5 579	7 309	6 048	1 005	546	795	388
2 772	917	11 813	5 276	6 377	1 880	2 239	735	3 840	1 275	2 834	321	2 853	257

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors; handlers, equipment cleaners, and laborers,
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stevedores
 Stock handlers and baggers
 Machine feeders and offbearers
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

United States

Manufacturing, nondurable goods—Con.

Chemicals and allied products—Con.	Petroleum and coal products				Rubber and miscellaneous plastics products						
	Petroleum refining		Miscellaneous petroleum and coal products		Tires and inner tubes		Other rubber products, and plastics footwear and belting		Miscellaneous plastics products		
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
555 154	104 295	183 296	30 491	30 899	5 265	48 945	6 413	142 963	31 792	449 907	173 048
123 810	15 036	40 477	5 511	5 223	661	4 806	447	16 982	2 009	54 721	8 260
66 187	8 888	23 190	3 458	4 085	559	3 223	307	10 996	1 435	40 619	6 356
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—</									

Data are estimates based on a sample; see Introduction.

United States

Employed persons 16 years and over—Con									
Managerial and professional specialty occupations—Con									
Professional specialty occupations—Con									
Natural scientists	18 040	2 608	2 741	536	346	53	126	7	63
Physicists and astronomers	310	37	41	—	—	—	—	—	—
Chemists, except biochemists	16 223	2 224	2 085	482	295	42	126	7	57
Atmospheric and space scientists	52	12	5	—	12	—	—	—	—
Geologists and geodesists	193	30	499	33	15	—	—	—	—
Physical scientists, n e c	126	12	40	—	—	—	—	—	—
Agricultural and food scientists	134	23	12	—	—	—	—	—	—
Biological and life scientists	663	178	11	5	24	11	—	—	—
Forestry and conservation scientists	24	16	—	—	—	—	—	—	—
Medical scientists	315	92	32	11	—	—	—	—	—
Health diagnosing occupations	221	8	61	—	—	—	—	—	—
Physicians	206	8	61	—	—	—	—	—	—
Dentists	6	—	—	—	—	—	—	—	—
Veterinarians	9	—	—	—	—	—	—	—	—
Optometrists	—	—	—	—	—	—	—	—	—
Podiatrists	—	—	—	—	—	—	—	—	—
Health diagnosing practitioners, n e c	—	—	—	—	—	—	—	—	—
Health assessment and treating occupations	542	474	184	177	—	—	—	—	—
Registered nurses	494	469	177	177	—	—	—	—	—
Pharmacists	10	—	5	—	—	—	—	—	—
Dietitians	15	2	—	—	—	—	—	—	—
Therapists	20	—	—	—	—	—	—	—	—
Physicians' assistants	3	3	2	—	—	—	—	—	—
Teachers, postsecondary	54	—	2	—	—	—	—	—	—
Teachers, except postsecondary	262	20	98	27	—	—	—	—	—
Teachers, prekindergarten and kindergarten	—	—	—	—	—	—	—	—	—
Teachers, elementary and secondary school	—	—	—	—	—	—	—	—	—
Teachers, special education	—	—	—	—	—	—	—	—	—
Teachers, n e c	262	20	98	27	—	—	—	—	—
Counselors, educational and vocational	5	—	—	—	—	—	—	—	—
Librarians, archivists, and curators	288	225	96	80	8	8	7	2	7
Librarians	281	218	89	83	8	8	5	2	7
Archivists and curators	7	7	7	7	—	—	—	—	—
Social scientists and urban planners	1 524	298	537	79	35	—	—	—	—
Economists	1 499	288	503	64	35	—	—	—	—
Psychologists	4	—	17	7	—	—	—	—	—
Sociologists	—	—	—	—	—	—	—	—	—
Social scientists, n e c	10	10	17	8	—	—	—	—	—
Urban planners	11	—	—	—	—	—	—	—	—
Social, recreation, and religious workers	61	—	7	—	—	—	—	—	—
Social workers	48	—	—	—	—	—	—	—	—
Recreation workers	8	—	—	—	—	—	—	—	—
Clergy	5	—	7	—	—	—	—	—	—
Religious workers, n e c	—	—	—	—	—	—	—	—	—
Lawyers and judges	996	97	835	98	27	—	—	—	—
Lawyers	996	97	835	98	27	—	—	—	—
Judges	—	—	—	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	2 216	528	1 013	254	103	33	50	19	40
Authors	20	8	20	13	—	—	—	—	—
Technical writers	203	57	89	21	—	—	—	—	—
Designers	889	77	314	38	44	10	23	6	9
Musicians and composers	15	—	—	—	—	—	—	—	—
Actors and directors	15	2	18	—	—	—	—	—	—
Painters, sculptors, craft-artists, and artist printmakers	211	107	49	24	14	9	15	6	8
Photographers	108	5	58	11	—	—	—	—	—
Dancers	—	—	—	—	—	—	—	—	—
Artists, performers, and related workers, n e c	13	8	—	—	—	—	—	—	—
Editors and reporters	231	110	70	42	7	7	7	15	34
Public relations specialists	498	154	395	105	38	7	7	6	162
Announcers	—	—	—	—	—	—	—	—	—
Athletes	13	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.												
Chemicals and allied products—Con.			Petroleum and coal products			Rubber and miscellaneous plastics products						
			Petroleum refining		Miscellaneous petroleum and coal products		Tires and inner tubes		Other rubber products, and plastics footwear and belting		Miscellaneous plastics products	
Total			Female		Female		Female		Female		Female	
Employed persons 16 years and over—Con.												
Technical, sales, and administrative support occupations												
Technicians and related support occupations												
Health technicians and technicians												
Clinical laboratory technicians and technicians												
Dental hygienists												
Health record technicians and technicians												
Radiologic technicians												
Licensed practical nurses												
Health technicians and technicians, n.e.c.												
Engineering and related technicians and technicians												
Electrical and electronic technicians												
Industrial engineering technicians												
Mechanical engineering technicians												
Engineering technicians, n.e.c.												
Drafting occupations												
Surveying and mapping technicians												
Science technicians												
Biological technicians												
Chemical technicians												
Science technicians, n.e.c.												
Technicians, except health, engineering, and science												
Airplane pilots and navigators												
Air traffic controllers												
Broadcast equipment operators												
Computer programmers												
Tool programmers, numerical control												
Legal assistants												
Technicians, n.e.c.												
Sales occupations												
Supervisors and proprietors, sales occupations												
Salaried												
Self-employed												
Sales representatives, finance and business services												
Insurance sales occupations												
Real estate sales occupations												
Securities and financial services sales occupations												
Advertising and related sales occupations												
Sales occupations, other business services												
Sales representatives, commodities, except retail												
Sales engineers												
Sales representatives, mining, manufacturing, and wholesale												
Sales workers, retail and personal services												
Sales workers, commodities												
Sales counter clerks												
Cashiers												
Street and door-to-door sales workers												
News vendors												
Sales related occupations												
Demonstrators, promoters and models, sales												
Auctioneers												
Sales support occupations, n.e.c.												
Administrative support occupations, including clerical												
Supervisors, administrative support occupations												
Supervisors, general office												
Supervisors, computer equipment operators												
Supervisors, financial records processing												
Chief communications operators												
Supervisors, distribution, scheduling, and adjusting clerks												
Computer equipment operators												
Computer operators												
Peripheral equipment operators												

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.									
Chemicals and allied products—Con.			Petroleum and coal products			Rubber and miscellaneous plastics products			Miscellaneous plastics products
Total	Female	Total	Female	Total	Female	Total	Female	Total	
28 576	28 254	8 335	8 258	1 336	1 318	1 120	1 092	4 000	12 290
25 740	25 510	7 346	7 272	1 184	1 168	990	969	3 621	10 930
402	402	186	183	15	15	17	17	12	84
2 434	2 342	803	803	137	135	113	106	367	1 284
1 707	1 485	630	570	119	110	80	60	196	1 119
203	161	181	170	22	13	36	24	11	117
102	34	46	19	—	—	—	—	3	24
1 233	1 233	358	339	97	97	30	30	171	959
169	77	45	42	—	—	14	6	11	964
3 859	2 685	1 104	749	302	232	329	105	922	3 921
32	12	6	6	—	—	5	5	5	12
148	122	17	9	26	20	—	—	43	29
1 865	1 346	292	165	200	154	116	60	348	1 589
234	234	161	146	18	18	20	20	106	1 066
101	95	25	25	—	—	—	—	9	291
1 326	767	537	369	58	40	162	12	391	1 796
153	121	66	48	—	—	26	8	20	70
9 051	7 575	4 701	3 428	867	714	564	521	1 966	7 104
6 923	5 895	3 740	2 763	581	493	367	336	1 324	6 397
1 029	835	368	252	129	101	93	86	339	5 270
716	636	388	306	133	117	70	70	197	986
321	160	145	65	19	3	23	11	60	542
62	49	60	42	5	—	11	11	27	237
241	112	198	110	15	11	7	—	68	166
139	75	46	37	15	11	—	—	31	87
12	10	—	—	—	—	—	—	3	51
90	27	152	73	—	—	7	—	30	115
657	517	220	174	42	42	34	34	118	317
644	511	220	174	42	42	34	34	118	317
7	6	—	—	—	—	—	—	—	—
1 107	441	544	260	34	13	67	43	226	529
—	—	—	—	—	—	—	—	—	—
952	388	418	217	27	13	39	37	160	415
135	53	126	43	7	—	28	6	66	114
15 088	3 592	3 393	728	785	192	1	201	4 515	13 499
208	37	498	83	49	48	7	25	25	59
3 119	839	206	206	133	48	339	96	1 144	2 605
6 319	1 092	734	109	433	316	516	312	1 942	6 518
3 934	1 187	972	213	171	53	347	30	1 074	3 268
—	—	—	—	—	—	—	—	—	—
640	94	154	20	86	27	53	6	169	553
29	6	44	9	—	—	—	—	10	9
749	293	121	82	33	7	73	37	136	411
90	44	22	6	—	—	—	—	15	56
1 005	520	368	167	76	33	138	71	322	515
—	—	—	—	58	20	83	48	251	437
876	415	298	127	—	—	—	—	—	276
129	105	70	40	18	13	55	23	71	10
11 152	8 195	4 949	3 201	625	420	628	392	1 997	5 646
6 037	4 744	2 637	1 796	346	248	312	242	1 180	2 780
—	—	—	—	—	—	—	—	—	—
33	18	13	13	—	—	—	—	—	21
2 489	2 316	1 202	999	173	155	120	103	529	1 328
852	852	389	191	16	—	110	33	90	233
8	8	—	—	—	—	—	—	4	—
1 733	616	708	202	90	17	86	14	194	793

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.

Administrative support occupations, including clerical—Con.

Secretaries, stenographers, and typists—

Secretaries—

Stenographers—

Typists—

Information clerks—

Interviewers—

Hotel clerks—

Transportation ticket and reservation agents—

Receptionists—

Information clerks, n e c—

Records processing occupations, except financial—

Classified-ad clerks—

Correspondence clerks—

Order clerks—

Personnel clerks, except payroll and timekeeping—

Library clerks—

File clerks—

Records clerks—

Financial records processing occupations—

Bookkeepers, accounting, and auditing clerks—

Payroll and timekeeping clerks—

Billing clerks—

Cost and rate clerks—

Billing, posting, and calculating machine operators—

Duplicating, mail, and other office machine operators—

Duplicating machine operators—

Mail preparing and paper handling machine operators—

Office machine operators, n e c—

Communications equipment operators—

Telephone operators—

Telegraphers—

Communications equipment operators, n e c—

Mail and message distributing occupations—

Postal clerks, except mail carriers—

Mail carriers, except postal service—

Messengers—

Material recording, scheduling, and distributing clerks—

Dispatchers—

Production coordinators—

Traffic, shipping, and receiving clerks—

Stock and inventory clerks—

Meter readers—

Weighers, measurers, and checkers—

Samplers—

Expeditors—

Material recording, scheduling, and distributing clerks, n e c—

Adjusters and investigators—

Insurance adjusters, examiners, and investigators—

Investigators and adjusters, except insurance—

Eligibility clerks, social welfare—

Bill and account collectors—

Miscellaneous administrative support occupations—

General office clerks—

Bank tellers—

Proofreaders—

Data-entry keyers—

Statistical clerks—

Teachers' aides—

Administrative support occupations, n e c—

OCCUPATION BY INDUSTRY

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Service occupations	
Private household occupations	
Protective service occupations	
Supervisors, protective service occupations	
Supervisors, firefighting and fire prevention occupations	
Supervisors, police and detectives	
Supervisors, guards	
Firefighting and fire prevention occupations	
Fire inspection and fire prevention occupations	
Firefighting occupations	
Police and detectives	
Police and detectives, public service	
Sheriffs, bailiffs, and other law enforcement officers	
Correctional institution officers	
Guards	
Crossing guards	
Guards and police, except public service	
Protective service occupations, n.e.c.	
Food occupations, except protective and household	
Food preparation and service occupations	
Supervisors, food preparation and service occupations	
Bartenders	
Waiters and waitresses	
Cooks, except short order	
Short-order cooks	
Food counter, fountain and related occupations	
Kitchen workers, food preparation	
Waiters and waitresses	
Waiters and waitresses, assistants	
Miscellaneous food preparation occupations	
Health service occupations	
Dental assistants	
Health aides, except nursing	
Nursing aides, orderlies, and attendants	
Cleaning and building service occupations, except household	
Supervisors, cleaning and building service workers	
Maid and houseman	
Janitors and cleaners	
Elevator operators	
Pest control occupations	
Personal service occupations	
Supervisors, personal service occupations	
Barbers	
Hardtenders and cosmetologists	
Attendants, amusement and recreation facilities	
Guides	
Ushers	
Public transportation attendants	
Baggage porters and bellhops	
Welfare service aides	
Child care workers, except private household	
Personal service occupations, n.e.c.	
Farming, forestry, and fishing occupations	
Farm operators and managers	
Farm occupations, except managerial	
Related agricultural occupations	
Supervisors, related agricultural occupations	
Groundskeepers and gardeners, except farm	
Animal caretakers, except farm	
Graders and sorters, agricultural products	
Inspectors, agricultural products	

Manufacturing, nondurable goods—Con.											
Chemicals and allied products—Con.		Petroleum and coal products		Rubber and miscellaneous plastics products							
Industrial and miscellaneous chemicals		Petroleum refining		Miscellaneous petroleum and coal products		Tires and inner tubes		Other rubber products, and plastics footwear and belting		Miscellaneous plastics products	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
17 302	2 345	5 351	760	864	106	1 399	215	3 817	448	10 466	1 456
4 077	367	1 685	125	127	—	255	13	785	29	1 410	117
141	8	107	—	—	—	28	—	30	—	5	—
4	—	18	—	—	—	—	—	—	—	—	—
137	8	89	—	—	—	28	—	30	—	5	—
338	8	142	10	10	—	4	—	31	—	25	—
109	—	88	10	6	—	—	—	12	—	8	—
229	8	54	—	4	—	4	—	19	—	17	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
3 598	351	1 436	115	117	—	223	13	724	29	1 380	117
—	—	—	—	—	—	—	—	—	—	—	—
3 592	351	1 427	106	117	—	223	13	724	29	1 378	117
16	—	9	9	—	—	—	—	—	—	2	—
13 225	1 978	3 666	635	737	106	1 144	202	3 032	419	9 056	1 339
462	299	358	177	18	10	40	27	74	44	142	86
48	33	49	31	—	—	—	—	6	6	11	2
7	—	2	—	—	—	—	—	—	—	—	—
46	39	27	—	—	—	—	—	—	—	4	—
126	72	158	70	5	5	25	12	43	13	67	43
2	—	—	—	—	—	—	—	—	—	6	—
21	7	—	—	—	—	—	—	—	—	—	—
12	12	14	8	—	—	—	—	—	—	6	—
10	10	24	—	—	—	—	—	9	9	11	6
48	24	48	22	—	—	15	15	16	16	37	25
176	124	60	22	13	5	11	4	24	24	62	56
107	44	37	25	—	—	—	—	—	—	6	—
—	—	—	—	—	—	—	—	—	—	—	—
56	23	12	7	—	—	11	4	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
51	25	18	—	—	—	—	—	24	24	56	50
12 536	1 591	3 182	412	708	85	1 086	171	2 868	310	8 787	1 165
346	6	116	12	5	5	48	6	52	271	271	16
493	—	98	58	47	29	46	12	116	28	463	131
11 673	1 439	2 961	335	643	51	963	134	2 654	8 027	8 027	1 018
13	5	7	7	7	—	29	19	46	15	18	—
11	6	—	—	—	—	—	—	8	—	—	—
44	44	89	21	11	11	7	—	66	41	65	32
8	8	—	—	—	—	—	—	—	—	—	—
3	—	—	—	—	—	—	—	6	6	7	7
13	6	—	—	—	—	—	—	—	—	7	17
10	17	6	—	—	—	—	—	4	—	13	—
50	—	37	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
5	—	—	—	—	—	—	—	—	—	—	—
2	—	6	—	—	—	7	—	—	—	—	—
29	13	40	15	6	5	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
316	45	154	2	35	—	35	—	64	—	169	47
—	—	—	—	—	—	—	—	—	—	—	—
6	6	—	—	—	—	—	—	—	—	6	—
246	28	131	2	28	—	27	—	50	—	115	31
—	—	—	—	—	—	—	—	—	—	3	—
186	21	131	2	28	—	27	—	50	—	90	14
60	7	—	—	—	—	—	—	—	—	22	17
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Manufacturing, nondurable goods—Con									
	Chemicals and allied products—Con.				Petroleum and coal products				Rubber and miscellaneous plastics products	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Industrial and miscellaneous chemicals	64	11	8	—	7	—	8	—	—	—
Farming, forestry, and fishing occupations	—	—	—	—	—	—	—	—	—	—
Forestry and logging occupations	—	—	—	—	—	—	—	—	—	—
Supervisors, forestry and logging workers	—	—	—	—	—	—	—	—	—	—
Forestry workers, except logging	32	11	8	—	7	—	8	—	—	—
Timber cutting and logging occupations	—	—	—	—	—	—	—	—	—	—
Fishers, hunters, and trappers	—	—	15	—	—	—	—	—	—	—
Captains and other officers, fishing vessels	—	—	15	—	—	—	—	—	—	—
Fishers	—	—	—	—	—	—	—	—	—	—
Hunters and trappers	—	—	—	—	—	—	—	—	—	—
Precision production, craft, and repair occupations	107	3 324	52 242	1 154	5 385	143	8 646	344	22 884	1 359
Mechanics and repairers	28 727	406	8 521	167	8 521	2	3 125	39	6 424	210
Supervisors, mechanics and repairers	1 254	—	502	—	43	—	64	—	140	10
Mechanics and repairers, except supervisors	27 473	395	8 019	167	1 577	2	3 061	39	6 284	200
Vehicle and mobile equipment mechanics and repairers	1 747	19	1 265	34	253	—	471	16	677	15
Automobile mechanics	958	12	550	12	122	—	358	2	299	12
Bus, truck, and stationary engine mechanics	215	—	108	—	41	—	54	—	23	—
Aircraft engine mechanics	40	—	50	—	19	—	6	—	10	—
Small engine repairers	15	—	2	—	7	—	—	—	—	—
Automobile body and related repairers	36	—	8	—	—	—	33	—	23	—
Aircraft mechanics, except engine	9	—	6	—	—	—	—	—	2	—
Heavy equipment mechanics	468	7	534	22	64	—	61	8	74	3
Farm equipment mechanics	6	—	7	—	—	—	7	—	6	—
Industrial machinery repairers	9 359	124	2 081	14	686	—	791	2	2 638	34
Machinery and electronic equipment repairers	462	21	168	11	111	2	131	—	338	10
Electronic repairers, communications and industrial equipment	783	19	255	7	21	—	49	—	65	2
Data processing equipment repairers	389	7	119	—	6	—	32	—	41	—
Household appliance and power tool repairers	100	—	79	7	8	—	5	—	2	—
Telephone line installers and repairers	10	—	12	—	—	—	—	—	7	—
Telephone installers and repairers	48	6	35	—	—	—	—	—	5	—
Miscellaneous electrical and electronic equipment repairers	226	6	10	—	7	—	12	—	10	—
Heating, air conditioning, and refrigeration mechanics	337	11	111	—	—	—	177	—	36	—
Miscellaneous mechanics and repairers	14 785	201	4 139	101	506	—	1 602	21	2 762	139
Camera, watch, and musical instrument repairers	650	11	494	4	—	—	6	6	65	4
Locksmiths and safe repairers	26	—	—	—	—	—	—	—	6	—
Office machine repairers	15	—	—	—	—	—	—	—	15	—
Mechanical controls and valve repairers	167	4	188	—	—	—	—	—	2	—
Elevator installers and repairers	82	—	—	—	—	—	—	—	19	—
Millwrights	3 225	9	230	—	184	—	214	7	538	—
Specified mechanics and repairers, n.e.c.	6 396	133	2 141	17	126	—	743	15	1 008	91
Not specified mechanics and repairers	4 224	44	1 084	80	196	—	632	—	1 151	48
Construction trades	21 317	483	10 727	155	914	30	1 107	42	2 821	35
Supervisors, construction occupations	1 606	285	709	—	82	—	16	—	114	—
Supervisors, brickmasons, stonemasons, and tile setters	—	—	—	—	—	—	—	—	—	—
Supervisors, carpenters and related workers	42	—	20	—	—	—	—	—	—	—
Supervisors, electricians and power transmission installers	437	—	163	—	10	—	7	—	13	—
Supervisors, plumbers, paperhangers, and plasterers	—	—	—	—	—	—	—	—	50	—
Supervisors, painters, paperhangers, and steamfitters	—	—	35	—	—	—	—	—	6	—
Supervisors, n.e.c.	1 060	285	491	—	72	—	9	—	45	—
Construction trades, except supervisors	19 711	198	10 018	155	832	30	1 091	42	2 707	35
Brickmasons and stonemasons	331	3	83	—	9	—	10	—	11	—
Tile setters, hard and soft	3	—	—	—	—	—	—	—	5	—
Carpet installers	6	—	—	—	—	—	9	—	1	—
Carpenters	2 053	21	1 181	6	121	—	26	6	155	4
Drywall installers	24	—	—	—	—	—	—	—	—	—
Electricians	6 979	68	2 383	38	324	14	592	19	1 546	2
Electrical power installers and repairers	17	—	—	—	4	—	20	8	17	—
Painters, construction and maintenance	1 060	44	288	19	13	—	44	—	129	—
Paperhangers	14	—	—	—	—	—	—	—	4	—
Miscellaneous plastics products	48	—	—	—	—	—	—	—	—	—
Other rubber products, and plastics footwear and belting	—	—	—	—	—	—	—	—	—	—
Tires and inner tubes	—	—	—	—	—	—	—	—	—	—
Miscellaneous petroleum and coal products	—	—	—	—	—	—	—	—	—	—
Miscellaneous chemicals	—	—	—	—	—	—	—	—	—	—
Chemicals and allied products—Con.	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample: see Introduction. For meaning of symbols, see appendix A.)

United States

Industrial and miscellaneous chemicals	Petroleum refining		Miscellaneous petroleum and coal products		Tires and inner tubes		Other rubber products, and plastics footwear and belting		Miscellaneous plastics products		
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.											
Precision production, craft, and repair occupations—Con.											
Construction trades—Con.											
Posters.....	5	—	—	—	—	9	—	372	—	—	—
Plumbers, pipefitters, and steamfitters.....	7 716	35	5 028	62	174	9	—	774	22	31	11
Concrete and terrazzo finishers.....	27	—	30	—	—	—	—	—	—	997	33
Glaziers.....	12	—	—	—	—	—	—	—	—	20	7
Insulation workers.....	1 215	25	813	25	56	—	—	43	—	15	—
Paving, surfacing, and tamping equipment operators.....	—	—	9	—	110	7	—	2	—	151	—
Roofers.....	22	2	—	—	—	—	—	—	—	—	—
Sheetmetal duct installers.....	57	—	59	—	—	—	—	—	—	—	—
Structural metal workers.....	95	—	18	—	—	—	—	14	7	22	15
Drillers, earth.....	2	—	126	—	—	—	—	11	—	18	10
Construction trades, n.e.c.....	73	29	15	5	15	—	6	12	—	85	22
Drillers, oil well.....	477	9	868	43	3	—	3	10	2	60	12
Extrusive occupations.....	77	9	2	—	—	—	—	—	—	5	—
Supervisors, extractive occupations.....	—	—	36	—	—	—	—	—	—	—	—
Drillers, oil well.....	222	18	79	36	2	—	2	—	—	38	8
Explosives workers.....	61	—	79	7	6	—	—	—	—	4	—
Mining machine operators.....	118	2	187	—	7	—	—	10	2	—	—
Mining occupations, n.e.c.....	—	—	—	—	—	—	1	—	—	6	—
Precision production occupations.....	57 043	2 406	32 128	789	2 836	111	4 411	13 629	1 112	52 029	6 398
Supervisors, production occupations.....	42 842	1 719	15 322	319	2 139	87	3 113	9 973	701	34 054	4 256
Precision metalworking occupations.....	6 715	154	4 449	76	31	10	571	2 458	128	1 394	137
Tool and die makers.....	314	9	58	—	17	—	84	312	—	3 823	77
Precision assemblers, metal.....	32	15	—	—	—	—	—	10	8	—	—
Machinists.....	4 776	95	3 040	69	255	10	435	1 895	91	10 225	1 107
Boilermakers.....	890	11	1 172	7	16	—	6	51	—	—	—
Precision grinders, files, and tool sharpeners.....	47	11	9	—	3	—	2	25	5	64	8
Patternmakers and model makers, metal.....	40	7	26	—	—	—	11	48	10	207	18
Layout workers.....	25	—	—	—	—	—	5	40	6	71	15
Precious stones and metals workers (jewelers).....	24	—	1	—	—	—	3	18	8	10	8
Engravers, metal.....	19	—	7	—	—	—	—	79	6	314	131
Sheet metal workers.....	527	6	129	—	14	—	25	205	—	205	15
Miscellaneous precision metal workers.....	21	—	—	—	—	—	—	2	2	40	6
Precision woodworking occupations.....	41	—	6	—	12	—	37	284	—	284	25
Patternmakers and model makers, wood.....	5	—	—	—	6	—	25	103	2	103	2
Cabinet makers and bench carpenters.....	—	—	—	—	6	—	—	101	—	101	—
Furniture and wood finishers.....	6	—	—	—	—	—	—	—	—	—	—
Miscellaneous precision woodworkers.....	30	—	—	—	—	—	5	—	—	20	—
Precision textile, apparel, and furnishings machine workers.....	73	32	6	—	—	—	7	60	—	60	7
Dressmakers.....	27	21	5	—	—	—	13	240	185	565	382
Upholsters.....	5	—	—	—	—	—	8	25	15	56	—
Laundries.....	—	—	—	—	—	—	—	—	—	—	—
Upholsterers.....	13	—	—	—	—	—	—	18	10	42	9
Shoe repairers.....	28	—	9	—	—	—	—	187	155	398	273
Apparel and fabric patternmakers.....	—	11	11	—	—	—	—	3	30	30	14
Miscellaneous precision apparel and fabric workers.....	—	—	—	—	—	—	—	7	2	14	—
Precision workers, assorted materials.....	284	56	112	10	20	—	63	87	24	641	179
Hand molders and shapers, except jewelers.....	86	15	15	6	—	—	23	12	32	249	32
Patternmakers, lay-out workers, and cutters.....	27	—	—	—	—	—	—	11	5	61	8
Optical goods workers.....	—	—	—	—	—	—	—	5	—	29	13
Dental laboratory and medical appliance technicians.....	6	12	2	—	—	—	—	—	—	9	—
Bookbinders.....	16	36	18	4	—	—	—	—	—	9	—
Electrical and electronic equipment assemblers.....	58	27	77	—	15	—	40	11	12	109	103
Miscellaneous precision workers, n.e.c.....	91	2	—	—	5	—	—	48	175	14	14
Precision food production occupations.....	97	—	24	—	6	—	—	35	1	107	38
Butchers and meat cutters.....	76	—	8	—	6	—	—	7	—	65	31
Bakers.....	8	—	16	—	—	—	—	—	—	42	—
Food batchmakers.....	13	—	—	—	—	—	—	—	—	—	—
Precision inspectors, testers, and related workers.....	226	29	144	11	19	14	396	322	67	267	106
Inspectors, testers, and graders.....	219	29	144	11	19	14	396	322	67	264	100
Adjusters and calibrators.....	7	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con												
Chemicals and allied products—Con.			Petroleum and coal products				Rubber and miscellaneous plastics products					
			Petroleum refining		Miscellaneous petroleum and coal products		Tires and inner tubes		Other rubber products, and plastics footwear and belting		Miscellaneous plastics products	
Total	Female		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.												
Precision production, craft, and repair occupations—Con												
Plant and system operators—Con.												
Water and sewage treatment plant operators												
Power plant operators												
Stationary engineers												
Miscellaneous plant and system operators												
Operators, fabricators, and laborers												
Machine operators, assemblers, and inspectors												
Machine operators and tenders, except precision												
Metalworking and plastic working machine operators												
Lathe and turning machine set-up operators												
Lathe and turning machine operators												
Milling and planing machine operators												
Punching and stamping press machine operators												
Rolling machine operators												
Drilling and boring machine operators												
Grinding, abrading, buffing, and polishing machine operators												
Forging machine operators												
Numerical control machine operators												
Miscellaneous metal, plastic, stone, and glass working machine operators												
Fabricating machine operators, n.e.c.												
Metal and plastic processing machine operators												
Molding and casting machine operators												
Metal plating machine operators												
Heat treating equipment operators												
Miscellaneous metal and plastic processing machine operators												
Woodworking machine operators												
Wood lathe, routing, and planing machine operators												
Sawing machine operators												
Shaping and joining machine operators												
Nailing and latching machine operators												
Miscellaneous woodworking machine operators												
Printing machine operators												
Printing machine operators												
Photoengravers and lithographers												
Typesetters and compositors												
Miscellaneous printing machine operators												
Textile, apparel, and furnishings machine operators												
Winding and twisting machine operators												
Knitting, looping, and weaving machine operators												
Textile cutting machine operators												
Textile sewing machine operators												
Shoe machine operators												
Pressing machine operators												
Laundry and dry cleaning machine operators												
Miscellaneous textile machine operators												
Machine operators, assorted materials												
Cementing and gluing machine operators												
Packaging and filling machine operators												
Extruding and forming machine operators												
Mixing and blending machine operators												
Separating, filtering, and clarifying machine operators												
Compressing and compacting machine operators												
Painting and paint spraying machine operators												
Roasting and baking machine operators												
Washing, cleaning, and pickling machine operators												

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

Manufacturing, nondurable goods—Con.									
Chemicals and allied products—Con.			Petroleum and coal products			Rubber and miscellaneous plastics products			
			Petroleum refining			Miscellaneous petroleum and coal products			
Industrial and miscellaneous chemicals									
Total	Female		Total	Female		Total	Female	Total	Female
195	25		47	—		24	15	4	2
7 502	247		1 448	54		324	—	142	—
2 137	100		200	1		66	19	63	106
590	120		90	1		141	—	642	—
16	—		—	—		—	—	—	—
223	59		60	17		—	—	18	10
9 816	1 265		4 242	264		1 451	77	9 255	450
26 192	3 434		5 457	363		2 045	151	2 856	263
12 519	2 864		4 515	139		775	77	1 724	248
6 689	105		3 775	49		296	14	244	—
58	32		18	—		—	—	6	—
5 447	2 668		617	70		464	63	1 407	233
12	—		8	—		—	—	19	19
122	4		6	—		11	—	5	5
119	32		41	—		—	—	30	5
8	6		—	—		—	—	13	—
3	—		50	—		4	—	—	—
61	17		—	—		—	—	—	—
4 829	1 340		2 488	85		511	112	2 456	364
4 052	1 200		2 297	77		403	50	2 031	—
348	30		144	6		34	32	87	18
275	—		32	—		33	8	9	7
154	78		19	2		41	22	329	63
21 424	593		9 192	258		2 830	56	2 365	114
11 353	199		5 606	122		1 158	11	962	33
77	2		31	9		8	—	—	—
9 110	153		4 755	72		1 000	7	734	15
1 567	7		656	18		130	—	87	—
201	—		50	—		—	—	56	14
46	6		8	—		4	—	6	—
328	31		106	15		13	4	66	4
8	—		—	—		3	—	6	—
16	—		—	—		—	—	7	—
183	2		83	—		—	—	10	—
24	2		—	—		—	—	—	—
59	—		25	—		—	—	10	—
93	—		58	—		—	—	—	—
7	—		—	—		—	—	—	—
75	8		450	—		25	—	5	—
50	8		144	—		15	—	10	—
10	—		266	—		10	—	—	—
15	—		40	—		—	—	5	—
—	—		—	—		—	—	—	—
384	—		3 053	136		1 647	45	1 388	81
182	—		58	6		6	—	7	—
483	25		397	31		63	—	3	—
—	—		8	—		—	—	—	—
47	—		79	—		7	—	19	—
847	7		407	6		12	—	31	—
195	8		43	—		9	—	2	—
77	—		808	38		—	—	—	—
4 993	185		1 193	—		1 993	23	1 065	53
2 989	159		1 183	61		323	22	261	28
Employed persons 16 years and over—Con.									
Operators, fabricators, and laborers—Con.									
Machine operators, assemblers, and inspectors—Con.									
Machine operators and tenders, except precision—Con.									
Machine operators, assorted materials—Con.									
Folding machine operators									
Furnace, kiln, and oven operators, except food									
Crushing and grinding machine operators									
Slicing and cutting machine operators									
Motion picture projectionists									
Photographic process machine operators									
Miscellaneous machine operators, n.e.c.									
Machine operators, not specified									
Fabricators, assemblers, and hand working occupations									
Welders and cutters									
Solders and brazers									
Assemblers									
Hand cutting and trimming occupations									
Hand molding, casting, and forming occupations									
Hand painting, coating and decorating occupations									
Hand engraving and printing occupations									
Hand grinding and polishing occupations									
Miscellaneous hand working occupations									
Production inspectors, testers, samplers, and weighers									
Production inspectors, checkers, and examiners									
Production testers									
Production samplers and weighers									
Graders and sorters, except agricultural									
Transportation and material moving occupations									
Motor vehicle operators									
Supervisors, motor vehicle operators									
Truck drivers, heavy									
Truck drivers, light									
Driver-sales workers									
Bus drivers									
Taxicab drivers and chauffeurs									
Parking lot attendants									
Motor transportation occupations, n.e.c.									
Rail transportation occupations									
Railroad conductors and yardmasters									
Locomotive operating occupations									
Railroad brake, signal, and switch operators									
Rail vehicle operators, n.e.c.									
Water transportation occupations									
Ship captains and mates, except fishing boats									
Skippers and deckhands									
Marine engineers									
Bridge, lock, and lighthouse tenders									
Material moving equipment operators									
Supervisors, material moving equipment operators									
Operating engineers									
Longshore equipment operators									
Hoist and winch operators									
Crane and tower operators									
Excavating and loading machine operators									
Grader, dozer, and scraper operators									
Industrial truck and tractor equipment operators									
Miscellaneous material moving equipment operators									

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.												
Chemicals and allied products—Con			Petroleum and coal products				Rubber and miscellaneous plastics products					
			Petroleum refining		Miscellaneous petroleum and coal products		Tires and inner tubes		Other rubber products, and plastics footwear and belting		Miscellaneous plastics products	
Total	Female		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con												
25 137	3 887	Operators, fabricators, and laborers—Con	8 802	614	2 850	252	4 165	358	9 669	2 361	32 619	16 566
52	6	Handlers, equipment cleaners, helpers, and laborers	14	—	12	—	23	—	38	—	39	8
146	—	Supervisors, handlers, equipment cleaners, and laborers, n e c	166	7	2	—	—	—	9	—	76	8
189	6	Helpers, mechanics and repairers	177	5	16	—	20	—	5	—	64	23
189	6	Helpers, construction and extractive occupations	177	5	16	—	20	—	5	—	62	21
—	—	Helpers, construction trades	—	—	—	—	—	—	—	—	2	2
—	—	Helpers, surveyor	—	—	—	—	—	—	—	—	—	—
—	—	Helpers, extractive occupations	—	—	—	—	—	—	—	—	—	—
540	3	Construction laborers	414	32	96	13	17	—	53	2	168	30
1 133	139	Production helpers	563	31	116	2	561	14	404	100	1 378	307
5 191	364	Freight, stock, and material handlers	1 786	139	566	35	1 001	57	2 926	335	3 743	877
14	—	Garbage collectors	2	—	—	—	11	—	7	—	25	7
18	8	Stevardores	12	—	—	—	—	—	—	—	3	—
789	112	Stock handlers and baggers	45	6	47	—	72	—	269	51	828	240
1 133	143	Machine feeders and officers	238	18	67	12	514	43	1 745	192	1 015	400
3 237	101	Freight, stock, and material handlers, n e c	1 489	115	452	23	404	14	905	91	1 872	230
39	—	Garage and service station related occupations	155	—	2	—	658	26	289	4	69	4
489	64	Vehicle washers and equipment cleaners	154	8	39	6	162	29	406	63	553	133
4 652	1 783	Hand packers and packagers	331	63	345	78	118	47	1 739	1 106	14 623	11 717
12 706	522	Laborers, except construction	5 042	329	1 656	118	1 605	185	3 800	751	11 906	3 459

Employed persons 16 years and over—Con

Operators, fabricators, and laborers—Con
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers,
 n e c
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stevedores
 Stock handlers and baggers
 Machine feeders and offbearers
 Freight, stock, and material handlers, n e c
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.				Manufacturing, durable goods											
Leather and leather products				Lumber and wood products, except furniture											
Leather tanning and finishing		Footwear, except rubber and plastic		Leather products, except footwear		Total		Logging		Sawmills, planing mills, and millwork		Wood buildings and mobile homes		Miscellaneous wood products	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
18 497	3 850	168 610	107 557	58 800	35 698	13 218 236	3 403 970	142 302	6 851	377 045	55 507	56 961	9 171	122 942	29 599
1 332	178	8 349	2 037	5 186	1 445	1 987 336	263 330	6 496	446	31 328	3 399	6 510	863	13 616	1 852
1 162	150	6 717	1 506	4 333	1 089	1 136 386	179 645	5 329	332	26 938	2 907	5 911	796	11 999	1 551
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—				

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Manufacturing, nondurable goods—Con				Manufacturing, durable goods							
	Leather and leather products				Total				Lumber and wood products, except furniture			
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Leather tanning and finishing	84	4	27	10	31	—	24 908	3 858	749	66	1 681	53
Professional specialty occupations—Con	—	—	—	—	—	—	3 633	138	—	—	—	—
Natural scientists	84	4	22	5	29	—	15 609	2 738	42	10	57	7
Physicists and astronomers	—	—	—	—	—	—	604	113	—	—	—	—
Chemists, except biochemists	—	—	5	5	—	—	469	38	9	—	—	—
Atmospheric and space scientists	—	—	—	—	—	—	355	48	—	—	—	—
Geologists and geodesists	—	—	—	—	—	—	221	51	—	—	—	—
Physical scientists, n.e.c.	—	—	—	—	—	—	1 313	591	4	—	—	—
Agricultural and food scientists	—	—	—	—	—	—	2 494	97	671	56	1 602	40
Biological and life scientists	—	—	—	—	—	—	210	44	—	—	—	—
Forestry and conservation scientists	—	—	—	—	—	—	1 281	184	—	—	—	—
Medical scientists	—	—	—	—	—	—	887	117	—	—	—	—
Health diagnosing occupations	—	—	—	—	—	—	195	19	—	—	—	—
Physicians	—	—	—	—	—	—	40	20	—	—	—	—
Dentists	—	—	—	—	—	—	84	—	—	—	—	—
Veterinarians	—	—	—	—	—	—	39	22	—	—	—	—
Optometrists	—	—	—	—	—	—	16	6	—	—	—	—
Podiatrists	—	—	—	—	—	—	—	—	—	—	—	—
Health diagnosing practitioners, n.e.c.	—	—	—	—	—	—	10 754	9 966	8	—	75	60
Health assessment and treating occupations	—	—	45	45	24	24	10 134	9 709	—	—	60	60
Registered nurses	—	—	45	45	24	24	55	24	—	—	—	—
Pharmacists	—	—	—	—	—	—	155	87	8	—	12	—
Dietitians	—	—	—	—	—	—	201	93	—	—	—	—
Therapists	—	—	—	—	—	—	209	53	—	—	3	—
Physicians' assistants	—	—	—	—	—	—	827	207	—	—	15	15
Teachers, postsecondary	6	—	36	36	—	—	10 524	2 352	4	—	7	—
Teachers, except postsecondary	—	—	140	128	20	18	47	5	—	—	—	—
Teachers, prekindergarten and kindergarten	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, elementary and secondary school	—	—	—	—	—	—	355	195	—	—	—	—
Teachers, special education	—	—	—	—	—	—	10 122	2 152	4	—	7	—
Teachers, n.e.c.	—	—	140	128	20	18	515	144	—	—	—	—
Counselors, educational and vocational	—	—	7	7	7	—	2 201	1 724	—	—	—	—
Librarians, archivists, and curators	—	—	7	7	7	—	2 111	1 689	—	—	—	—
Librarians	—	—	7	7	7	—	90	35	—	—	—	—
Archivists and curators	—	—	—	—	—	—	18 609	4 079	45	—	87	26
Social scientists and urban planners	6	—	40	22	42	27	18 027	3 995	36	—	87	26
Economists	6	—	40	22	42	27	426	70	—	—	—	—
Psychologists	—	—	—	—	—	—	30	1	9	—	—	—
Sociologists	—	—	—	—	—	—	57	13	—	—	—	—
Social scientists, n.e.c.	—	—	—	—	—	—	69	—	—	—	—	—
Urban planners	—	—	—	—	—	—	646	236	—	—	—	—
Social, recreation, and religious workers	2	—	7	7	12	12	341	138	—	—	14	—
Social workers	—	—	7	7	12	12	182	56	—	—	6	—
Recreation workers	—	—	—	—	—	—	85	7	—	—	6	—
Religious workers, n.e.c.	—	—	—	—	—	—	38	13	—	—	—	—
Lawyers and judges	—	—	22	—	5	5	6 362	643	6	—	76	6
Lawyers	—	—	22	—	5	5	6 362	643	6	—	76	6
Judges	—	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	28	10	609	151	454	247	89 714	21 108	61	32	475	175
Authors	—	—	—	—	—	—	596	193	—	—	—	—
Technical writers	—	—	—	—	—	—	15 040	3 038	5	5	5	—
Designers	26	10	496	107	407	216	45 189	7 297	14	12	290	100
Musicians and composers	—	—	4	2	—	—	507	100	—	—	5	—
Actors and directors	—	—	—	—	—	—	649	136	—	—	—	—
Pointers, sculptors, craft-artists, and artist printmakers	—	—	18	—	9	7	11 229	4 323	2	2	36	24
Photographers	—	—	—	—	2	—	3 171	508	—	—	15	—
Dancers	—	—	—	—	—	—	22	19	—	—	—	—
Artists, performers, and related workers, n.e.c.	—	—	—	—	—	—	833	403	—	—	—	—
Editors and reporters	—	—	17	—	17	17	4 554	2 284	—	—	13	—
Public relations specialists	—	—	7	—	7	7	7 611	2 764	40	13	91	38
Announcers	2	—	48	13	—	—	74	15	—	—	—	—
Athletes	—	—	—	—	5	—	239	28	—	—	14	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con.										Manufacturing, durable goods																					
Leather and leather products										Lumber and wood products, except furniture																					
Footwear, except rubber and plastic					Leather products, except footwear					Logging					Sawmills, planing mills, and millwork					Wood buildings and mobile homes					Miscellaneous wood products						
Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female					
Employed persons 16 years and over—Con.																															
2 274		1 229		21 306		13 834		8 741		5 443		2 401 385		1 174 377		5 469		3 246		34 033		18 727		7 632		3 290		13 485		8 057	
141		20		602		194		250		79		494 002		78 119		448		89		2 476		308		845		79		1 082		170	
—		—		10		3		9		—		5 794		1 968		2		2		16		5		14		2		5		5	
—		—		—		—		—		—		100		29		—		—		—		—		—		—		—		—	
—		—		—		—		—		—		252		82		—		—		—		—		—		—		—		—	
—		—		3		3		9		—		984		770		—		—		2		14		12		12		—		—	
—		—		7		—		102		18		336 252		44 150		172		43		1 696		169		710		47		684		91	
90		20		262		96		12		84		130 391		16 027		6		30		31		9		20		—		32		10	
12		—		25		3		18		3		3 691		582		6		—		3		—		14		—		23		—	
6		—		5		—		—		—		9 544		442		—		—		3		64		—		—		6		—	
66		20		120		40		26		7		71 034		13 727		59		28		557		64		110		4		330		36	
—		—		90		39		43		—		120 762		13 304		46		15		911		96		566		43		285		45	
—		—		—		—		3		—		830		68		61		—		110		—		—		—		8		—	
37		—		56		11		14		7		23 342		5 604		61		7		340		12		9		—		108		21	
6		—		28		—		7		7		6 587		1 385		38		7		17		3		2		—		16		—	
29		—		28		11		7		—		16 067		4 006		17		—		113		9		7		—		92		21	
2		—		—		—		—		—		128 614		26 397		213		37		624		122		112		18		285		53	
14		—		274		84		125		54		3 224		67		52		—		131		—		22		—		26		5	
—		—		—		—		—		—		—		—		—		—		—		—		—		—		—		—	
—		—		7		1		—		—		1 122		236		6		6		—		—		—		—		15		—	
—		—		184		63		80		37		74 523		18 535		54		12		260		83		47		14		86		30	
4		—		22		7		—		—		3 959		513		—		—		6		—		—		4		2		—	
—		—		13		7		—		—		1 081		750		6		19		27		12		4		4		9		9	
—		—		48		6		45		17		44 705		6 296		95		—		200		27		39		—		147		9	
Sales occupations		401		105		4 059		1 824		602		285 721		42 862		1 091		75		5 492		604		2 103		259		2 258		523	
Supervisors and proprietors, sales occupations		35		19		320		114		60		28 795		3 970		612		3		27		315		52		38		268		38	
Salaries		22		13		6		301		109		25 928		2 915		136		2		366		27		297		52		154		32	
Self-employed		22		13		19		5		34		2 867		375		476		1		104		18		37		2		114		6	
Sales representatives, finance and business services		—		—		10		6		11		2 432		791		14		—		25		18		18		2		13		6	
Insurance sales occupations		—		—		—		—		—		—		—		—		—		—		—		—		—		—		—	
Real estate sales occupations		—		—		—		4		4		391		75		3		—		12		5		32		2		7		—	
Securities and financial services sales occupations		—		—		—		—		7		2 041		716		11		—		13		13		5		—		6		6	
Advertising and related sales occupations		—		—		10		6		7		—		—		—		—		—		—		—		—		—		—	
Sales occupations, other business services		—		—		—		—		—		—		—		—		—		—		—		—		—		—		—	
Sales representatives, commodities, except retail		341		65		3 611		1 014		1 607		506		31 907		402		69		4 792		468		1 714		180		1 913		439	
Sales engineers		—		—		—		—		15		3		18 585		—		—		36		—		20		—		32		—	
Sales representatives, mining, manufacturing, and wholesale		341		65		3 611		1 014		1 592		503		31 507		402		69		4 756		468		1 694		180		1 881		439	
Sales workers, retail and personal services		25		9		118		102		32		25		6 334		62		3		184		86		30		18		59		40	
Sales workers, commodities		13		9		4		—		—		—		917		33		—		42		—		10		2		3		3	
Sales counter clerks		—		—		7		7		—		—		112		—		—		15		—		2		2		—		—	
Cashiers		—		—		97		85		30		23		4 691		29		3		110		84		8		8		25		13	
Street and door-to-door sales workers		12		12		6		6		2		2		2 662		—		—		17		—		4		14		7		7	
News vendors		—		—		4		4		—		—		389		173		—		—		—		6		6		17		17	
Sales related occupations		—		—		—		5		5		—		540		1		—		21		5		7		7		5		—	
Demonstrators, promoters and models, sales		—		—		—		—		5		—		441		1		—		8		—		7		7		—		—	
Auctioneers		—		—		—		—		—		—		29		—		—		—		—		—		—		—		—	
Sales support occupations, n.e.c.		—		—		—		—		—		—		91		—		—		13		—		—		—		5		—	
Administrative support occupations, including clerical		1 732		1 104		16 645		12 404		6 667		4 762		1 053 396		3 930		3 082		26 065		17 815		4 684		2 952		10 145		7 364	
Supervisors, administrative support occupations		116		18		869		417		541		191		30 726		159		67		1 732		436		277		71		589		140	
Supervisors, general office		20		13		344		201		203		97		16 611		101		59		574		220		91		19		542		90	
Supervisors, computer equipment operators		—		—		36		12		13		13		7 237		8		8		35		16		—		—		8		8	
Supervisors, financial records processing		6		—		199		146		107		45		21 896		9		—		292		141		82		47		61		22	
Chief communications operators		—		—		—		—		—		—		207		—		—		—		—		—		—		—		—	
Supervisors: distribution, scheduling, and adjusting clerks		90		5		290		58		218		49		4 138		41		—		831		59		104		5		278		20	
Computer equipment operators		35		25		636		390		199		155		33 789		67		16		704		81		123		81		256		184	
Computer operators		—		—		556		316		197		133		58 446		67		16		704		75		111		75		219		165	
Peripheral equipment operators		—		—		80		74		2		2		3 791		—		—		107		34		12		34		37		37	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.
Administrative support occupations, including clerical—Con
Secretaries, stenographers, and typists-----

Manufacturing, nondurable goods—Con.				Manufacturing, durable goods											
Leather and leather products				Lumber and wood products, except furniture											
Leather tanning and finishing		Footwear, except rubber and plastic		Leather products, except footwear		Total		Logging		Sawmills, planing mills, and millwork		Wood buildings and mobile homes		Miscellaneous wood products	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
345	345	2 728	2 694	1 205	1 205	410 485	405 684	1 120	1 108	7 151	7 006	1 415	1 395	2 812	2 772
303	303	2 274	2 250	1 045	1 045	359 150	355 382	1 090	1 078	6 722	6 597	1 367	1 347	2 608	2 568
2	2	60	60	13	13	4 271	4 184	7	7	32	32	7	7	197	197
40	40	394	384	147	147	47 258	46 118	23	23	397	377	48	48	202	196
8	8	281	271	212	205	28 855	26 231	73	67	558	520	111	103	18	12
—	—	84	74	42	42	2 741	2 266	—	—	16	9	4	4	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	7	7	9	9	1 168	470	6	—	7	7	—	—	9	9
8	8	176	176	148	148	22 063	21 586	63	63	459	442	101	93	160	160
—	—	14	14	6	6	2 883	1 909	4	4	76	62	6	6	15	15
49	25	142	933	340	294	89 876	57 224	93	51	921	417	190	70	488	259
—	—	13	13	—	—	759	466	—	—	2	—	7	—	—	—
—	—	7	7	12	12	2 880	1 928	—	—	2	—	—	—	5	5
34	10	716	563	172	130	35 994	21 562	25	14	449	196	59	36	211	102
2	2	65	65	24	24	8 484	7 324	24	24	82	82	23	23	18	18
—	—	—	—	—	—	605	513	2	—	361	121	2	—	—	—
13	13	306	257	121	121	38 239	23 342	44	13	361	121	101	11	240	122
—	—	35	28	7	7	2 915	2 089	—	—	23	16	—	—	14	12
399	369	2 594	2 410	1 069	1 015	202 700	170 411	1 485	1 353	5 896	5 174	886	746	2 099	1 932
231	215	1 350	1 229	809	845	146 429	127 519	1 361	1 253	4 911	4 334	720	614	1 932	1 563
120	106	919	874	124	124	32 166	24 740	101	87	599	527	112	105	288	270
48	48	194	188	79	66	14 293	12 599	21	13	293	262	18	11	86	86
—	—	95	83	21	16	7 621	4 028	2	—	66	24	36	16	29	27
—	—	36	36	—	—	2 191	1 525	—	—	27	27	—	—	—	—
28	—	159	136	2	2	6 016	3 899	4	—	58	36	—	—	19	5
—	—	47	40	—	—	2 892	1 793	4	—	31	23	—	—	5	5
5	—	64	55	2	2	2 442	1 823	—	—	2	8	—	—	—	—
23	—	48	41	—	—	2 682	1 283	—	—	25	13	—	—	6	—
23	18	114	114	86	73	11 218	10 173	18	11	132	120	22	22	45	45
18	18	108	108	86	73	10 755	9 996	11	11	132	120	22	22	45	45
5	—	6	6	—	—	322	130	7	—	—	—	—	—	—	—
—	—	—	—	—	—	141	47	—	—	—	—	—	—	—	—
—	—	165	131	115	70	15 693	7 289	8	8	278	103	29	18	64	38
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	156	131	77	64	12 740	6 423	—	—	213	90	—	—	35	20
—	—	9	9	38	6	2 953	866	8	8	65	13	3	—	29	18
491	108	4 599	1 846	1 883	699	436 827	125 820	525	150	5 398	1 272	1 115	143	2 358	790
—	—	14	14	—	—	4 963	1 437	17	—	59	—	12	6	—	—
47	22	614	440	188	145	101 381	34 511	63	32	724	265	178	42	309	137
343	63	2 354	501	1 174	299	135 369	27 598	104	8	1 996	256	178	55	1 283	365
65	23	1 157	517	349	144	141 336	43 598	185	61	1 361	443	284	40	556	216
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16	—	86	74	110	73	11 031	2 664	119	35	1 141	252	4	—	152	52
—	—	6	6	—	—	264	129	—	—	—	—	—	—	—	—
20	—	346	277	49	25	39 142	14 253	37	14	102	41	46	—	36	20
—	—	17	17	13	13	3 341	1 630	—	—	15	15	—	—	—	—
10	9	309	248	70	64	21 857	10 719	42	7	249	112	83	16	62	40
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	9	247	205	62	56	18 983	8 899	35	7	232	102	74	14	43	21
—	—	10	10	—	—	121	89	—	—	—	—	—	—	—	—
—	—	52	33	8	8	2 753	1 731	7	—	17	10	9	2	19	19
228	179	3 049	2 814	945	789	230 645	171 421	336	244	2 881	2 106	433	287	1 151	963
183	138	2 079	1 921	664	555	128 708	99 646	240	188	2 024	1 513	242	197	846	725
—	5	—	—	9	9	762	602	—	—	—	—	—	—	—	—
34	34	775	752	144	136	52 416	49 377	38	38	488	425	61	55	136	136
—	—	72	70	13	9	13 766	8 372	36	10	111	71	—	—	25	12
—	—	—	—	—	—	208	117	—	—	—	—	—	—	—	—
6	2	117	65	115	80	34 785	13 307	22	8	258	97	130	35	144	90

OCCUPATION BY INDUSTRY

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Manufacturing, nondurable goods—Con.				Manufacturing, durable goods											
	Leather and leather products				Lumber and wood products, except furniture											
	Footwear, except rubber and plastic		Leather products, except footwear		Logging		Sawmills, planing mills, and millwork		Wood buildings and mobile homes		Miscellaneous wood products					
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female				
United States																
Employed persons 16 years and over—Con.																
Service occupations	424	32	2 730	552	744	137	269 907	41 823	1 523	288	9 656	1 464	1 653	383	2 732	329
Private household occupations	121	6	448	14	62	14	63 409	4 566	544	57	3 281	269	463	11	760	32
Protective service occupations	—	—	—	—	—	—	3 070	146	32	—	9	—	—	—	24	—
Supervisors, protective service occupations	—	—	—	—	—	—	365	—	26	—	—	—	—	—	2	—
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	—	—	—	—	—	—	—	146	6	—	32	—	—	—	22	—
Supervisors, guards	—	—	—	—	—	—	2 705	135	132	—	240	14	—	—	36	—
Firefighting and fire prevention occupations	—	—	—	—	—	—	3 169	137	104	—	187	14	—	—	12	—
Firefighting occupations	—	—	—	—	—	—	1 423	77	—	—	73	—	—	—	24	—
Police and detectives	—	—	—	—	—	—	1 746	58	28	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Guards	121	6	448	14	62	14	57 170	4 285	380	57	2 980	255	463	11	700	32
Crossing guards	—	—	—	—	—	—	73	2	2	—	—	—	—	—	—	—
Guards and police, except public service	121	6	448	14	62	14	56 987	4 269	378	57	2 975	255	463	11	700	32
Protective service occupations, n.e.c.	—	—	—	—	—	—	110	14	—	—	5	—	—	—	—	—
Service occupations, except protective and household	303	26	2 282	538	682	123	206 498	37 257	979	231	6 375	1 195	1 190	372	1 972	297
Food preparation and service occupations	26	10	160	153	34	13	10 853	7 353	96	46	136	89	38	10	53	18
Supervisors, food preparation and service occupations	—	—	5	5	8	3	584	276	6	—	8	2	—	—	—	—
Bar tenders	—	—	—	—	—	—	115	30	9	—	—	—	—	—	—	—
Waiters and waitresses	—	—	6	6	12	3	1 281	1 030	7	7	7	7	7	—	—	—
Cooks, except short order	15	10	73	73	—	—	3 562	2 228	54	12	100	64	26	10	17	10
Short-order cooks	—	—	—	—	—	—	113	35	—	—	—	—	—	—	—	—
Food counter, fountain and related occupations	—	—	5	5	—	—	353	216	—	—	5	5	—	—	—	—
Kitchen workers, food preparation	—	—	—	—	—	—	535	393	—	—	—	—	—	—	—	—
Waiters and waitresses, assistants	—	—	16	16	7	7	1 046	823	14	14	3	3	—	—	10	—
Miscellaneous food preparation occupations	—	—	55	48	7	7	3 244	2 302	13	13	13	11	—	—	26	8
Health service occupations	3	—	52	29	7	7	2 194	1 481	7	6	40	36	14	8	18	18
Dental assistants	—	—	14	7	—	—	121	91	—	—	—	—	—	—	—	—
Health aides, except nursing	—	—	16	16	—	—	300	112	—	—	—	—	6	—	—	—
Nursing aides, orderlies, and attendants	3	—	22	22	7	7	1 773	1 278	7	6	40	36	8	8	18	18
Cleaning and building service occupations, except household	274	16	1 908	244	623	85	189 510	26 759	637	154	6 059	1 034	1 039	292	1 886	253
Supervisors, cleaning and building service workers	—	—	21	21	6	6	3 268	226	16	—	109	—	15	5	19	—
Maids and housemen	17	3	114	61	45	7	10 954	2 994	79	47	297	103	102	84	95	32
Janitors and cleaners	247	13	1 726	175	565	78	174 182	23 414	542	107	5 636	925	916	203	1 768	221
Elevator operators	10	—	41	8	7	7	1 027	111	—	—	17	6	6	—	4	—
Pest control occupations	—	—	6	6	—	—	79	14	—	—	—	—	—	—	—	—
Personal service occupations	—	—	162	112	18	18	3 941	1 664	239	25	140	36	99	62	15	8
Supervisors, personal service occupations	—	—	8	8	—	—	224	26	3	—	7	—	—	—	6	—
Barbers	—	—	11	11	—	—	99	33	—	—	—	—	—	—	—	—
Hairdressers and cosmetologists	—	—	2	2	—	—	196	133	—	—	13	—	—	—	—	—
Attendants, amusement and recreation facilities	—	—	13	5	5	5	575	197	4	—	30	—	—	—	—	—
Guides	—	—	—	—	—	—	444	138	8	8	5	5	53	29	—	—
Ushers	—	—	—	—	—	—	222	42	—	—	—	—	—	—	—	—
Public transportation attendants	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	—	—	—	31	6	—	—	—	—	—	—	—	—
Welfare service aides	—	—	12	12	—	—	298	151	11	—	6	—	—	—	—	—
Child care workers, except private household	—	—	116	82	13	13	1 852	938	213	17	72	31	46	33	8	8
Personal service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farming, forestry, and fishing occupations	28	—	43	12	15	15	95 160	2 941	77 413	1 255	11 041	378	186	6	645	43
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	8	—	—	—	—	—	571	420	14	—	17	8	—	—	—	—
Related agricultural occupations	2	2	28	6	7	7	4 037	639	234	—	434	49	7	—	43	3
Supervisors, related agricultural occupations	—	—	—	—	—	—	124	49	20	—	7	—	—	—	—	—
Groundskeepers and gardeners, except farm	—	—	—	—	—	—	3 708	547	212	—	419	—	7	—	41	2
Animal caretakers, except farm	2	—	28	6	7	7	161	43	2	—	8	8	—	—	1	1
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	—	—	—	—	44	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Manufacturing, nondurable goods—Con.						Manufacturing, durable goods					
	Leather and leather products			Total			Lumber and wood products, except furniture			Total		
	Leather tanning and finishing	Footwear, except rubber and plastic	Leather products, except footwear	Total	Female	Total	Logging	Sawmills, planing mills, and millwork	Wood buildings and mobile homes	Miscellaneous wood products	Total	Female
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.												
Farming, forestry, and fishing occupations—Con.												
Forestry and logging occupations—Con.												
Forestry workers, except logging	18	15	8	8	89 853	1 824	77 067	1 247	10 541	321	179	6
Timber cutting and logging occupations	—	—	—	—	5 305	31	4 724	17	471	—	45	—
Fishers, hunters, and trappers	18	15	8	8	1 034	134	334	15	215	41	18	—
Captains and other officers, fishing vessels	—	—	—	—	83 514	1 659	72 009	1 215	9 855	280	134	6
Fishers	—	—	—	—	699	58	98	8	49	—	—	—
Hunters and trappers	—	—	—	—	153	8	42	—	10	—	—	—
	—	—	—	—	166	11	43	—	19	—	—	—
	—	—	—	—	380	39	13	8	20	—	—	—
Precision production, craft, and repair occupations												
Mechanics and repairers	2 189	23 389	5 917	2 193	2 852 969	310 147	7 259	75	66 987	2 813	19 523	1 704
Supervisors, mechanics and repairers	440	2 358	868	205	624 067	37 388	3 556	15	16 077	252	1 873	31
Supervisors, mechanics and repairers	18	59	10	—	13 913	362	145	—	354	—	41	—
Mechanics and repairers, except supervisors	422	2 299	868	205	610 134	37 026	3 411	15	15 723	252	1 832	31
Vehicle and mobile equipment mechanics and repairers	42	42	39	2	114 820	4 706	1 482	8	1 764	13	110	1
Automobile mechanics	19	40	10	2	48 687	2 030	382	59	717	13	31	—
Bus, truck, and stationary engine mechanics	6	7	7	—	12 950	166	285	8	359	—	6	—
Aircraft engine mechanics	2	—	—	—	16 752	837	31	—	36	—	—	—
Small engine repairers	—	—	—	—	3 706	193	30	—	29	—	—	—
Automobile body and related repairers	—	—	—	—	4 719	138	35	—	40	—	—	—
Aircraft mechanics, except engine	—	—	—	—	8 536	1 015	—	—	—	—	—	—
Heavy equipment mechanics	15	2	18	—	16 603	171	703	—	566	—	14	—
Farm equipment mechanics	—	—	—	—	2 685	136	16	—	17	—	—	—
Industrial machinery repairers	268	1 476	424	20	165 497	5 382	491	7	3 301	65	355	7
Machinery maintenance occupations	21	21	39	32	12 485	510	57	—	512	—	48	—
Electrical and electronic equipment repairers	—	6	—	—	10 781	10 781	46	—	107	—	94	—
Electronic repairers, communications and industrial equipment	—	—	—	—	20 803	3 033	16	—	50	—	2	—
Data processing equipment repairers	—	6	—	—	14 824	1 498	14	—	11	—	60	—
Household appliance and power tool repairers	—	—	—	—	4 695	641	—	—	7	—	7	—
Telephone line installers and repairers	—	—	—	—	352	114	—	—	9	—	14	—
Telephone installers and repairers	—	—	—	—	20 119	3 602	—	—	6	—	—	—
Miscellaneous electrical and electronic equipment repairers	—	—	—	—	9 387	1 893	16	—	24	—	18	—
Heating, air conditioning, and refrigeration mechanics	—	15	—	—	11 697	287	—	—	13	—	85	—
Miscellaneous mechanics and repairers	91	739	366	151	235 475	15 360	1 335	—	10 026	174	1 188	16
Comma, watch, and musical instrument repairers	—	—	—	—	6 703	1 746	2	—	19	—	5	—
Locksmiths and safe repairers	—	—	—	—	1 161	212	11	—	—	—	—	—
Office machine repairers	3	—	5	7	4 033	520	—	—	7	—	—	—
Mechanical controls and valve repairers	—	—	—	—	2 235	273	—	—	57	—	—	—
Elevator installers and repairers	—	9	—	—	2 992	71	—	—	7	—	—	—
Milwrights	10	—	37	25	80 281	2 978	450	—	6 933	37	20	—
Specified mechanics and repairers, n.e.c.	46	397	185	92	80 339	5 977	80	—	1 637	51	12	—
Not specified mechanics and repairers	32	291	132	27	57 731	3 583	329	—	1 366	4	172	4
Construction trades												
Supervisors, construction occupations	120	347	254	55	351 065	16 661	803	23	12 607	553	11 137	929
Bricklayers and masons	15	6	10	10	15 164	2	161	12	704	20	454	13
Supervisors, bricklayers, masons, and tile setters	—	—	—	—	211	2	—	—	—	—	—	—
Supervisors, carpenters and related workers	—	—	—	—	1 716	8	7	—	163	—	81	6
Supervisors, electricians and power transmission installers	13	—	10	10	5 120	179	—	—	184	16	79	2
Supervisors, painters, paperhangers, and plasterers	—	—	—	—	635	—	—	—	5	—	5	—
Supervisors, plumbers, pipefitters, and steamfitters	—	—	—	—	1 350	5	—	—	2	—	2	—
Supervisors, n.e.c.	2	6	—	—	6 132	124	154	12	355	4	256	7
Construction trades, except supervisors												
Bricklayers and masons	105	341	244	45	335 901	16 343	642	11	11 903	533	10 683	916
Supervisors, construction occupations	—	4	5	5	12 482	528	10	—	92	14	10	—
Tile setters and roofers	—	—	—	—	483	17	—	—	37	—	26	—
Carpet installers	—	—	—	—	1 220	119	—	—	17	—	497	2
Carpenters	36	68	85	6	72 023	2 904	263	2	7 729	286	5 797	463
Drywall installers	—	30	15	9	1 047	132	6	—	180	54	10	—
Electricians	46	172	94	12	121 194	5 387	230	—	2 532	7	1 841	231
Electrical power installers and repairers	—	5	—	—	1 016	212	—	—	6	—	—	—
Painters, construction and maintenance	7	28	23	13	27 288	3 216	23	7	412	52	264	59
Paperhangers	—	—	—	—	189	23	7	—	—	—	13	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Manufacturing, nondurable goods—Con.				Manufacturing, durable goods							
	Leather and leather products				Lumber and wood products, except furniture							
	Total	Female	Total	Female	Footwear, except rubber and plastic	Leather products, except footwear	Total	Female	Logging	Sawmills, planing mills, and millwork	Wood buildings and mobile homes	Miscellaneous wood products
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.												
Precision production, craft, and repair occupations—Con												
Construction trades—Con												
Construction trades, except supervisors—Con												
Piesters	16	—	23	8	—	—	22	—	38	—	8	—
Plumbers, pipefitters, and steamfitters	—	—	—	—	—	—	—	—	—	—	1 329	120
Concrete and terrazzo finishers	—	—	—	—	—	—	—	—	—	—	—	—
Glaziers	—	—	—	—	—	—	—	—	—	—	—	—
Insulation workers	—	—	—	—	—	—	—	—	—	—	—	—
Paving, surfacing, and tamping equipment operators	—	—	—	—	—	—	—	—	—	—	—	—
Roofers	—	—	—	—	—	—	—	—	—	—	—	—
Sheetmetal duct installers	—	—	—	—	—	—	—	—	—	—	—	—
Structural metal workers	—	—	—	—	—	—	—	—	—	—	—	—
Drillers, earth	—	—	—	—	—	—	—	—	—	—	—	—
Construction trades, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Drillers	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, extractive occupations	7	—	—	—	—	—	—	—	—	—	—	—
Drillers, oil well	7	—	—	—	—	—	—	—	—	—	—	—
Explosives workers	7	—	—	—	—	—	—	—	—	—	—	—
Mining machine operators	—	—	—	—	—	—	—	—	—	—	—	—
Mining occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Precision production occupations	1 622	127	20 677	9 169	4 795	1 933	4 795	1 933	2 864	37	6 513	1 167
Supervisors, production occupations	1 349	73	7 305	2 260	3 924	1 569	3 924	1 569	2 270	27	4 081	7 976
Precision metalworking occupations	152	20	1 313	241	475	117	475	117	378	—	536	600
Tool and die makers	—	—	—	—	152	15	152	15	215	—	19	115
Machinists	—	—	—	—	—	—	—	—	—	—	—	—
Metalworking occupations	124	11	1 066	206	248	64	248	64	215	—	86	78
Patternmakers and model makers	9	—	—	—	—	—	—	—	—	—	—	—
Precision molders, filers, and tool sharpeners	9	—	—	—	—	—	—	—	—	—	—	—
Patternmakers and model makers, metal	10	—	107	7	14	3	14	3	117	—	7	—
Low-out workers	—	—	—	—	—	—	—	—	—	—	—	—
Precious stones and metals workers (jewelers)	—	—	—	—	—	—	—	—	—	—	—	—
Engravers, metal	—	—	—	—	—	—	—	—	—	—	—	—
Sheet metal workers	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous precision metal workers	2	—	—	—	—	—	—	—	—	—	—	—
Precision woodworking occupations	—	—	—	—	—	—	—	—	—	—	—	—
Patternmakers and model makers, wood	—	—	—	—	—	—	—	—	—	—	—	—
Cabinet makers and bench carpenters	—	—	—	—	—	—	—	—	—	—	—	—
Furniture and wood finishers	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous precision woodworkers	—	—	—	—	—	—	—	—	—	—	—	—
Precision textile, apparel, and furnishings machine workers	79	—	11 655	6 584	298	220	298	220	22	—	53	—
Dressmakers	—	—	385	285	174	174	174	174	7	—	14	—
Tailors	—	—	9	9	19	6	19	6	7	—	39	—
Upholsterers	26	—	26	6 263	72	28	72	28	—	—	—	—
Shoe repairers	41	17	11 118	101	101	20	101	20	—	—	—	—
Apparel and fabric patternmakers	12	12	16	7	12	12	12	12	—	—	—	—
Miscellaneous precision apparel and fabric workers	—	—	—	—	—	—	—	—	—	—	—	—
Precision workers, assorted materials	5	5	200	23	46	9	46	9	8	—	35	—
Hand molders and shapers, except jewelers	—	—	—	—	—	—	—	—	—	—	—	—
Patternmakers, lay-out workers, and cutters	—	—	—	—	—	—	—	—	—	—	—	—
Optical goods workers	—	—	—	—	—	—	—	—	—	—	—	—
Dental laboratory and medical appliance technicians	—	—	—	—	—	—	—	—	—	—	—	—
Bookbinders	—	—	—	—	—	—	—	—	—	—	—	—
Electrical and electronic equipment assemblers	5	5	5	5	6	6	6	6	—	—	—	—
Miscellaneous precision workers, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Precision food production occupations	7	—	—	—	—	—	—	—	—	—	—	—
Butchers and meat cutters	7	—	—	—	—	—	—	—	—	—	—	—
Bakers	—	—	—	—	—	—	—	—	—	—	—	—
Food batchmakers	—	—	—	—	—	—	—	—	—	—	—	—
Precision inspectors, testers, and related workers	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, testers, and graders	—	—	—	—	—	—	—	—	—	—	—	—
Adjusters and calibrators	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

United States															
Manufacturing, nondurable goods—Con.						Manufacturing, durable goods									
Leather and leather products						Lumber and wood products, except furniture									
Leather tanning and finishing		Footwear, except rubber and plastic		Leather products, except footwear		Total		Logging		Sawmills, planing mills, and millwork		Wood buildings and mobile homes		Miscellaneous wood products	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
30	—	76	16	12	—	30 009	1 482	109	—	549	8	29	2	247	6
2	—	—	—	—	—	946	39	8	—	6	—	—	—	4	—
26	—	59	11	6	—	1 624	35	17	—	346	8	26	2	192	6
—	—	10	5	—	—	24 264	1 189	71	—	35	—	3	—	—	—
—	—	—	—	—	—	3 175	219	13	—	—	—	—	—	—	—
12 250	2 267	112 793	81 503	38 197	26 465	5 611 479	1 611 352	44 142	1 541	224 000	28 726	21 457	2 925	70 610	17 698
8 383	1 718	100 940	74 473	32 439	23 111	4 453 389	1 424 477	10 807	767	135 493	21 094	14 797	2 410	51 889	14 605
6 779	1 273	88 304	65 047	23 945	17 021	2 318 436	571 315	8 887	455	104 532	13 373	7 492	1 366	8 700	8 700
118	20	792	390	328	170	649 429	110 605	285	24	5 704	1 370	209	37	3 348	1 131
—	—	—	—	—	—	52 218	3 378	—	—	32	—	—	—	21	—
5	—	57	10	26	—	101 651	8 167	76	8	1 096	88	35	—	734	94
—	—	—	—	—	—	18 227	1 587	2	2	71	—	8	—	29	5
24	6	195	5	118	93	135 996	41 722	19	—	280	62	55	14	223	100
—	—	—	—	—	—	17 107	1 625	—	—	29	6	—	—	—	—
—	—	49	25	32	26	56 517	11 382	3	3	275	76	8	5	180	40
78	12	444	167	130	41	225 626	38 879	146	11	3 826	1 128	96	18	2 037	867
—	—	5	2	—	—	12 803	800	26	—	27	—	—	—	43	7
—	—	—	—	—	—	2 367	137	—	—	—	—	—	—	2	—
9	2	28	9	20	8	26 917	2 928	—	—	68	3	7	—	79	16
6	—	87	80	243	154	26 104	8 687	18	7	60	17	149	6	89	31
234	28	1 168	518	309	134	139 902	23 085	80	4	1 871	273	429	125	859	200
200	28	1 123	494	241	113	72 033	16 385	45	4	1 756	265	395	125	741	188
34	—	9	9	56	15	34 192	4 431	26	—	37	—	17	—	91	12
—	—	20	15	—	—	22 198	1 131	—	—	46	—	—	—	13	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	16	—	12	6	11 479	1 118	9	—	—	8	—	—	14	—
19	8	327	208	228	115	119 285	16 225	4 179	104	53 941	4 540	1 971	247	16 353	2 706
—	—	—	—	—	—	6 777	683	105	—	3 634	288	88	87	897	87
5	—	104	76	91	37	81 687	8 988	3 791	79	41 326	2 687	1 326	10	6 803	1 047
—	—	54	21	7	—	5 416	1 947	13	7	1 191	145	101	19	480	480
—	—	92	85	77	57	3 226	886	8	—	162	151	78	11	327	206
14	8	65	26	53	21	22 179	3 701	262	18	7 126	1 269	378	29	6 554	886
26	—	142	108	70	37	20 361	7 599	10	—	355	73	18	6	150	73
26	—	138	108	68	35	14 894	5 460	212	—	212	58	18	6	112	24
—	—	—	—	—	—	1 350	375	—	—	11	—	—	—	5	5
—	—	—	—	—	—	2 260	1 309	—	—	4	—	—	—	5	—
—	—	4	—	2	2	1 857	455	10	—	128	15	—	—	28	—
2 424	599	59 536	52 977	9 401	8 411	55 663	42 366	76	15	939	289	271	222	547	290
—	—	17	17	15	15	2 183	1 173	—	—	11	—	—	—	90	67
15	10	12	12	6	6	1 170	688	—	—	13	13	14	9	7	7
387	99	34	18	13	—	354	89	5	—	307	—	—	—	5	5
254	207	5 736	5 231	8 889	8 110	41 740	36 319	29	8	307	182	215	199	254	142
234	75	63 406	47 474	208	144	672	474	2	—	47	2	4	—	21	—
—	—	89	83	28	10	497	202	10	—	61	—	—	—	—	—
—	—	40	17	3	3	874	394	3	—	159	22	3	—	33	—
—	—	202	125	236	136	8 173	3 186	27	—	333	68	35	14	137	32
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3 952	618	16 252	10 766	13 366	8 000	1 307 692	362 768	4 239	303	41 662	6 811	4 445	723	16 337	4 308
16	16	787	640	775	730	13 816	6 938	46	21	495	392	44	9	285	112
—	—	274	241	55	41	11 916	7 060	15	7	233	104	13	6	170	82
34	—	47	20	23	23	9 470	1 405	5	—	105	25	25	25	43	10
—	—	—	—	—	—	2 036	2 829	31	—	367	16	2	—	181	29
573	43	208	111	110	51	2 629	1 495	37	14	163	17	1	—	158	29
—	—	19	13	9	2	6 229	1 495	31	—	627	67	2	—	102	29
62	23	132	117	205	117	7 068	2 505	29	5	627	67	2	—	102	29
23	10	155	116	49	102	88 010	17 934	35	—	1 457	391	286	69	1 290	504
—	—	—	—	—	—	692	103	—	—	15	3	—	—	13	—
—	—	13	13	—	—	3 305	590	—	—	53	—	8	—	16	3

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Manufacturing, nondurable goods—Con.										Manufacturing, durable goods									
	Leather and leather products					Total					Logging					Sawmills, planing mills, and millwork				
	Footwear, except rubber and plastic		Leather products, except footwear		Total		Total		Female		Total		Total		Female		Total		Female	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Operators, fabricators, and laborers—Con.																				
Machine operators, assemblers, and inspectors—Con.																				
Machine operators and tenders, except precision—Con.																				
Machine operators, n.e.c.																				
Folding machine operators	15	—	485	422	163	149	4 550	1 932	—	—	—	—	82	41	—	—	177	38	—	—
Engraving, litho, and screen operators, except food	87	11	56	34	9	—	82 750	4 660	178	11	—	—	3 236	175	—	—	582	19	—	—
Cushing and grinding machine operators	8	—	61	32	4	—	16 316	1 597	39	—	—	—	258	10	—	—	108	—	—	—
Slicing and cutting machine operators	634	146	4 354	2 264	3 103	4	81 263	15 789	599	30	—	—	3 859	699	20	—	2 094	411	—	—
Motion picture projectionists	—	—	—	—	—	—	143	37	—	—	—	—	12	—	—	—	—	—	—	—
Photographic process machine operators	—	—	64	53	48	39	10 085	4 937	2	—	—	—	23	—	—	—	15	7	—	—
Miscellaneous machine operators, n.e.c.	988	176	2 196	1 461	2 404	1 447	295 733	96 974	942	72	—	—	8 200	351	4	—	3 090	808	—	—
Machine operators, not specified	1 445	203	7 396	5 224	6 400	4 221	656 308	195 983	2 281	139	—	—	21 477	3 449	561	—	8 013	2 256	—	—
Fabricators, assemblers, and hand working occupations	1 027	245	7 307	5 125	6 753	4 622	1 662 727	647 484	811	99	—	—	17 192	4 384	872	—	11 233	4 435	—	—
Welders and cutters	25	—	90	43	135	34	419 807	32 863	460	7	—	—	2 283	75	35	—	58	40	—	—
Solders and brazers	—	—	7	—	41	—	29	27 465	22 115	—	—	—	26	2	5	—	—	—	—	—
Assemblers	597	200	6 854	4 823	6 110	4 266	1 177 574	579 661	196	64	—	—	14 429	4 256	834	—	9 968	4 045	—	—
Hand cutting and trimming occupations	101	23	88	53	140	99	2 381	993	114	7	—	—	30	—	3	—	36	17	—	—
Hand molding, casting, and forming occupations	—	—	21	10	38	20	12 166	3 585	—	—	—	—	37	—	16	—	82	7	—	—
Hand painting, coating, and decorating occupations	195	10	76	52	152	86	13 030	4 142	35	21	—	—	49	3	5	—	163	95	—	—
Hand engraving and printing occupations	14	—	—	—	—	—	720	294	—	—	—	—	14	—	—	—	7	—	—	—
Hand grinding and polishing occupations	16	—	—	—	8	2	1 616	463	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous hand working occupations	79	12	171	144	129	86	7 968	3 368	6	—	—	—	324	48	—	—	218	4	—	—
Production inspectors, testers, samplers, and weighers	577	200	5 329	4 301	1 741	1 468	472 226	205 678	1 109	213	—	—	13 769	3 337	754	—	2 973	1 470	—	—
Production inspectors, checkers, and examiners	214	92	4 947	4 061	1 434	1 295	402 793	181 368	304	60	—	—	3 600	1 156	720	—	1 486	805	—	—
Production testers	—	—	18	11	17	2	46 641	15 859	—	—	—	—	35	—	2	—	34	—	—	—
Production samplers and weighers	5	—	71	44	44	38	2 048	661	—	—	—	—	44	10	5	—	24	—	—	—
Graders and sorters, except agricultural	358	103	293	185	201	133	20 744	7 790	805	153	—	—	10 090	2 171	27	—	1 429	665	—	—
Transportation and material moving occupations																				
Motor vehicle operators	681	42	2 107	731	1 132	361	521 162	27 711	27 386	327	—	—	36 338	1 034	125	—	7 675	337	—	—
Supervisors, motor vehicle operators	178	—	738	49	349	18	194 136	5 171	14 928	174	—	—	15 256	180	101	—	3 305	43	—	—
Truck drivers, heavy	—	—	6	—	—	—	362	46	21	—	—	—	32	23	2	—	10	—	—	—
Truck drivers, light	166	—	583	19	221	9	157 363	2 875	14 619	161	—	—	13 682	147	40	—	2 730	28	—	—
Driver-sales workers	6	—	103	24	106	9	25 380	1 089	198	8	—	—	1 260	10	380	—	432	15	—	—
Bus drivers	—	—	—	—	—	—	1 988	284	14	—	—	—	70	—	—	—	31	—	—	—
Taxicab drivers and chauffeurs	—	—	34	6	12	—	8 085	675	33	5	—	—	203	—	16	—	95	—	—	—
Parking lot attendants	—	—	—	—	—	—	222	52	19	—	—	—	9	—	73	—	—	—	—	—
Motor transportation occupations, n.e.c.	—	—	—	—	—	—	128	9	24	—	—	—	—	—	—	—	7	—	—	—
Rail transportation occupations																				
Railroad conductors and yardmasters	5	—	—	—	—	—	6 590	139	40	—	—	—	62	—	7	—	54	—	—	—
Locomotive operating occupations	5	—	—	—	—	—	744	22	8	—	—	—	8	—	—	—	—	—	—	—
Railroad brake, signal, and switch operators	—	—	—	—	—	—	2 643	71	2	—	—	—	11	—	6	—	13	—	—	—
Rail vehicle operators, n.e.c.	—	—	—	—	—	—	3 100	44	30	—	—	—	43	—	1	—	41	—	—	—
Water transportation occupations																				
Ship captains and mates, except fishing boats	—	—	7	7	—	—	1 951	70	30	—	—	—	124	—	—	—	19	—	—	—
Sailors and deckhands	—	—	7	7	—	—	998	30	22	—	—	—	113	—	—	—	6	—	—	—
Marine engineers	—	—	—	—	—	—	653	24	8	—	—	—	5	—	—	—	—	—	—	—
Bridge, lock, and lighthouse tenders	—	—	—	—	—	—	238	7	—	—	—	—	6	—	—	—	13	—	—	—
Material moving equipment operators																				
Supervisors, material moving equipment operators	498	42	1 362	675	783	343	318 485	22 331	12 388	153	—	—	20 896	854	1 084	—	4 297	294	—	—
Operating engineers	8	—	15	—	6	—	5 550	341	659	—	—	—	39	7	42	—	221	4	—	—
Longshore equipment operators	—	—	—	—	—	—	4 376	98	—	—	—	—	422	6	—	—	18	—	—	—
Hoist and winch operators	14	14	—	—	5	—	89	—	950	8	—	—	6	—	3	—	8	2	—	—
Crane and tower operators	8	—	—	—	—	—	3 774	229	271	—	—	—	447	11	—	—	236	5	—	—
Excavating and loading machine operators	—	—	7	7	3	—	70 370	1 912	546	10	—	—	370	35	23	—	23	—	—	—
Grader, dozer, and scraper operators	—	—	—	—	—	—	3 913	143	985	6	—	—	255	6	11	—	550	53	—	—
Industrial truck and tractor equipment operators	326	—	262	9	153	20	157 019	8 013	7 739	96	—	—	15 488	444	743	—	2 862	161	—	—
Miscellaneous material moving equipment operators	142	28	1 078	659	610	323	70 573	11 546	1 238	39	—	—	2 973	345	256	—	874	122	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Manufacturing, nondurable goods—Con				Manufacturing, durable goods											
Leather and leather products				Total				Logging				Sawmills, planing mills, and millwork			
Leather tanning and finishing				Leather products, except footwear				Footwear, except rubber and plastic				Wood buildings and mobile homes			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
3 186	507	9 746	6 299	4 626	2 993	636 928	159 164	5 949	447	52 169	6 598	3 452	390	11 046	2 756
—	—	15	—	5	—	1 126	71	40	—	73	—	7	—	21	—
10	—	12	—	—	—	2 745	154	24	—	71	6	—	—	19	—
—	—	—	—	—	—	7 297	596	8	—	410	46	153	16	211	10
—	—	—	—	—	—	7 234	591	6	—	387	46	153	16	205	10
—	—	—	—	—	—	63	5	2	—	23	—	—	—	6	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	—	19	2	19	—	8 789	541	148	—	437	4	465	32	227	13
117	2	104	30	225	125	36 128	4 025	47	4	794	116	51	2	341	80
155	19	1 589	772	434	229	131 502	21 986	3 675	262	24 931	2 632	466	31	2 347	371
1	—	—	—	6	—	440	139	—	—	13	—	5	—	14	—
—	—	—	—	—	—	223	6	—	—	2	—	10	—	7	—
6	—	486	279	143	108	18 703	4 123	7	—	388	90	37	—	126	26
56	14	506	400	137	106	41 338	11 793	299	78	9 262	1 517	106	4	568	195
92	5	597	93	148	15	70 778	5 925	3 369	184	15 266	1 025	308	27	1 632	150
—	—	23	4	—	—	1 567	208	14	—	143	8	11	6	11	—
69	11	308	249	27	20	16 008	3 215	46	—	281	64	7	—	86	12
76	35	3 680	2 948	2 049	1 622	123 438	70 601	108	50	2 186	774	88	42	1 649	1 062
2 753	440	3 996	2 294	1 867	997	308 328	57 767	1 839	131	22 843	2 948	2 204	261	6 134	1 208

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors; handlers, equipment cleaners, and laborers,
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, conveyor
 Helpers, driver
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stevedores
 Stock handlers and bidders
 Machine feeders and offbearers
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.													
United States				Stone, clay, glass, and concrete products						Metal industries			
				Glass and glass products		Cement, concrete, gypsum, and plaster products		Structural clay products					
Furniture and fixtures		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over													
Managerial and professional specialty occupations		530 144	162 549	231 631	73 212	178 059	18 853	59 025	12 452	43 470	17 009	138 548	31 825
Executive, administrative, and managerial occupations		44 758	7 861	22 580	4 326	23 588	2 209	7 001	1 777	5 222	1 914	20 328	2 714
Legislators, chief executives, and general administrators; public administration		37 574	6 368	14 423	2 446	20 220	2 032	4 863	846	2 830	721	14 854	2 009
Administrators and officials, public administration		—	—	—	—	—	—	—	—	—	—	—	—
Federal		—	—	—	—	—	—	—	—	—	—	—	—
State		—	—	—	—	—	—	—	—	—	—	—	—
Local		—	—	—	—	—	—	—	—	—	—	—	—
Administrators, protective services		7	—	—	—	—	—	—	—	—	—	—	—
Financial managers		1 451	350	605	139	907	121	149	9	79	33	549	57
Personnel and labor relations managers		1 311	320	469	63	430	100	152	42	81	24	462	64
Purchasing managers		382	16	100	14	140	7	33	5	19	2	159	27
Managers, marketing, advertising, and public relations		3 599	551	1 334	144	1 651	55	545	49	260	46	1 886	141
Administrators, education and related fields		—	—	32	8	5	—	2	—	—	—	13	5
Managers, medicine and health		—	—	—	—	—	—	—	—	—	—	—	—
Managers, properties and real estate		23	12	14	—	15	5	—	—	—	—	14	—
Postmasters and mail superintendents		—	—	—	—	—	—	—	—	—	—	—	—
Funeral directors		2	—	6	—	6	—	—	—	—	—	6	—
Managers and administrators, n.e.c.		24 729	3 151	8 449	958	14 372	1 078	3 312	512	1 887	400	9 039	903
Salaried		21 898	2 861	7 664	797	13 460	989	2 928	345	1 575	276	8 228	747
Self-employed		2 831	290	785	161	912	89	384	167	312	124	811	156
Management related occupations		6 070	1 968	3 414	1 120	2 694	666	670	229	504	218	2 726	842
Accountants and auditors		2 374	877	1 775	648	1 523	428	273	111	258	125	1 331	427
Underwriters		—	—	—	—	—	—	—	—	—	—	—	—
Other financial officers		201	98	151	39	101	21	33	9	20	14	82	20
Management analysts		139	26	63	10	62	5	8	—	3	—	83	23
Personnel, training, and labor relations specialists		1 168	310	678	176	493	95	157	53	85	19	493	156
Purchasing agents and buyers, farm products		—	—	—	—	—	—	—	—	—	—	—	—
Purchasing agents and retail trade except farm products		—	—	—	—	—	—	—	—	—	—	—	—
Buyers, wholesale and retail trade except farm products		—	—	—	—	—	—	—	—	—	—	—	—
Business agents and buyers, n.e.c.		2 102	627	709	225	472	107	173	56	133	59	690	210
Business and promotion agents		13	11	5	5	6	—	3	—	—	—	—	—
Construction inspectors		6	—	—	—	—	—	—	—	—	—	—	—
Inspectors and compliance officers, except construction		13	7	18	6	22	—	13	—	5	—	26	—
Management related occupations, n.e.c.		54	6	15	11	10	10	5	—	—	—	21	6
Professional specialty occupations		7 184	1 493	8 157	1 880	3 368	177	2 138	931	2 392	1 193	5 474	705
Engineers, architects, and surveyors		3 461	234	4 279	214	1 990	5	785	36	629	20	3 315	128
Architects		89	24	14	6	11	—	8	—	—	—	5	—
Engineers		3 372	210	4 265	208	1 979	5	771	28	629	20	3 289	128
Aerospace engineers		17	5	4	—	55	—	5	—	7	—	53	—
Metallurgical and materials engineers		13	—	96	5	31	—	121	8	125	—	141	10
Mining engineers		—	—	—	—	31	11	4	—	—	—	11	—
Petroleum engineers		—	—	—	—	—	—	—	—	—	—	—	—
Chemical engineers		24	—	109	10	12	—	7	—	22	—	104	6
Nuclear engineers		—	—	—	—	—	—	—	—	—	—	—	—
Civil engineers		35	—	64	—	353	5	14	—	21	—	106	5
Agricultural engineers		—	—	—	—	—	—	—	—	—	—	—	—
Electrical and electronic engineers		148	10	314	10	116	—	42	—	30	—	180	—
Industrial engineers		1 778	165	1 219	116	387	—	212	13	177	20	966	85
Mechanical engineers		452	8	691	5	383	—	117	—	103	—	453	—
Marine engineers and naval architects		—	—	5	—	29	—	—	—	—	—	5	—
Engineers, n.e.c.		905	22	1 763	62	582	—	249	7	144	—	1 259	22
Surveyors and mapping scientists		—	—	—	—	—	—	6	—	—	—	21	—
Mathematical and computer scientists		312	48	470	77	164	20	41	3	53	12	286	68
Computer systems analysts and scientists		161	21	245	26	126	14	17	—	30	6	157	38
Operations and systems researchers and analysts		121	14	152	33	38	6	24	3	17	—	98	23
Actuaries		5	—	6	—	—	—	—	—	—	—	—	—
Statisticians		25	13	67	18	—	—	—	—	6	—	31	7
Mathematical scientists, n.e.c.		—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.																	
Furniture and fixtures				Glass and glass products				Cement, concrete, gypsum, and plaster products		Structural clay products		Pottery and related products		Miscellaneous nonmetallic mineral and stone products		Metal industries	
Total		Female		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States																	
Employed persons 16 years and over—Con																	
Managerial and professional specialty occupations—Con																	
Professional specialty occupations—Con																	
Natural scientists																	
67	8		444	52	727	44		517	355	163	83	409	32	1 654	121		
—	—		67	2	—	—		—	—	—	—	2	—	13	—		
42	—		336	46	647	39		485	343	138	83	351	25	1 526	105		
8	—		—	—	5	5		—	6	—	—	7	—	28	—		
—	—		—	—	67	—		26	6	25	—	33	7	62	13		
—	—		—	—	—	—		—	—	—	—	13	7	16	3		
—	—		8	4	—	—		6	6	—	—	3	—	9	—		
6	—		23	—	8	—		—	—	—	—	—	—	—	—		
11	—		—	—	—	—		—	—	—	—	—	—	—	—		
—	—		10	—	—	—		—	—	—	—	—	—	—	—		
6	6		16	9	—	—		—	—	4	—	24	—	98	—		
—	—		—	—	—	—		—	—	4	—	24	—	98	—		
—	—		—	—	—	—		—	—	—	—	—	—	—	—		
—	—		—	—	—	—		—	—	—	—	—	—	—	—		
—	—		—	—	—	—		—	—	—	—	—	—	—	—		
6	6		9	9	—	—		—	—	—	—	—	—	—	—		
—	—		—	—	—	—		—	—	—	—	—	—	—	—		
137	137		394	386	16	16		28	26	25	25	80	80	933	849		
130	130		364	358	16	16		26	26	25	25	74	74	871	849		
—	—		6	6	—	—		—	—	—	—	—	—	—	—		
5	5		8	7	—	—		2	—	—	—	6	6	—	—		
2	2		7	7	—	—		—	—	—	—	—	—	—	—		
—	—		9	9	—	—		—	—	—	—	—	—	55	—		
42	6		16	8	15	2		13	13	73	55	7	—	31	5		
81	35		91	28	—	—		118	118	—	—	86	36	184	7		
—	—		—	—	—	—		—	—	—	—	—	—	—	—		
—	—		—	—	—	—		—	—	—	—	—	—	—	—		
6	—		—	—	—	—		98	98	29	25	22	22	—	—		
75	35		91	28	—	—		20	20	44	30	64	14	177	7		
—	—		—	—	—	—		—	—	—	—	8	8	—	—		
4	4		17	6	10	10		20	18	—	—	6	6	49	49		
—	—		—	—	—	—		—	—	—	—	6	6	49	49		
4	4		—	—	—	—		—	—	—	—	—	—	—	—		
220	44		162	54	103	33		39	—	10	8	230	32	283	73		
211	44		159	54	97	27		39	—	8	8	222	32	269	61		
9	—		3	—	6	6		—	—	—	—	6	—	14	12		
—	—		—	—	—	—		—	—	—	—	—	—	—	—		
—	—		—	—	—	—		—	—	2	—	—	—	—	—		
—	—		—	—	—	—		—	—	—	—	—	—	—	—		
34	12		9	7	—	—		12	6	—	—	2	2	27	—		
17	12		9	7	—	—		6	6	—	—	2	2	25	—		
—	—		—	—	—	—		—	—	—	—	—	—	—	—		
2	—		—	—	—	—		6	6	—	—	2	2	—	—		
4	—		—	—	—	—		—	—	—	—	—	—	—	—		
20	—		130	13	72	12		6	—	—	—	57	—	266	41		
20	—		130	13	72	12		6	—	—	—	57	—	266	41		
—	—		—	—	—	—		—	—	—	—	—	—	—	—		
2 795	959		2 124	1 026	271	35		559	356	1 435	990	962	313	845	98		
13	—		8	—	—	—		—	—	—	—	—	—	28	—		
29	19		32	11	—	—		13	6	12	6	30	—	45	—		
2 136	500		965	430	104	8		204	126	1 090	770	345	122	426	31		
18	6		7	—	—	—		—	—	—	—	—	—	15	—		
—	—		—	—	—	—		—	—	—	—	—	—	—	—		
—	—		26	17	—	—		—	—	10	—	8	—	8	8		
4	4		—	—	—	—		—	—	—	—	—	—	—	—		
101	53		944	488	40	15		235	170	284	193	473	145	36	13		
—	—		—	—	—	—		—	—	—	—	—	—	—	—		
45	6		5	5	6	—		16	—	—	—	11	—	82	2		
2	2		—	—	—	—		10	10	—	—	—	—	—	—		
28	13		39	14	13	6		40	38	23	13	38	17	6	6		
37	23		29	29	7	—		—	—	—	—	7	2	26	—		
382	324		59	17	94	6		41	6	12	8	50	27	161	44		
—	—		—	—	7	—		—	—	4	—	—	—	7	5		

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations	
Technicians and related support occupations	
Health technologists and technicians	
Clinical laboratory technologists and technicians	
Dental hygienists	
Health record technologists and technicians	
Radiologic technicians	
Licensed practical nurses	
Health technologists and technicians, n.e.c.	
Engineering and related technologists and technicians	
Electrical and electronic technicians	
Industrial engineering technicians	
Mechanical engineering technicians	
Engineering technicians, n.e.c.	
Drafting occupations	
Surveying and mapping technicians	
Science technicians	
Biological technicians	
Chemical technicians	
Science technicians, n.e.c.	
Technicians, except health, engineering, and science	
Airplane pilots and navigators	
Air traffic controllers	
Broadcast equipment operators	
Computer programmers	
Tool programmers, numerical control	
Legal assistants	
Technicians, n.e.c.	
Sales occupations	
Supervisors and proprietors, sales occupations	
Salaried	
Self-employed	
Sales representatives, finance and business services	
Insurance sales occupations	
Real estate sales occupations	
Securities and financial services sales occupations	
Advertising and related sales occupations	
Sales occupations, other business services	
Sales representatives, commodities, except retail	
Sales engineers	
Sales representatives, mining, manufacturing, and wholesaler	
Sales workers, retail and personal services	
Sales workers, commodities	
Sales counter clerks	
Cashiers	
Street and door-to-door sales workers	
News vendors	
Sales related occupations	
Demonstrators, promoters and models, sales	
Auctioneers	
Sales support occupations, n.e.c.	
Administrative support occupations, including clerical	
Supervisors, administrative support occupations	
Supervisors, general office	
Supervisors, computer equipment operators	
Supervisors, financial records processing	
Chief communications operators	
Supervisors, distribution, scheduling, and adjusting clerks	
Computer equipment operators	
Computer operators	
Peripheral equipment operators	

Manufacturing, durable goods—Con.											
Furniture and fixtures		Stone, clay, glass, and concrete products								Metal industries	
		Glass and glass products		Cement, concrete, gypsum, and plaster products		Structural clay products		Pottery and related products			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
71 881	39 193	30 255	17 055	27 027	13 048	8 233	4 098	5 160	3 074	26 054	13 041
4 112	750	4 487	978	3 023	271	1 175	264	613	110	4 048	656
26	20	82	40	7	-	12	3	11	4	25	6
-	-	3	3	7	-	-	-	7	-	6	6
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
20	20	44	29	-	-	-	-	2	2	5	5
6	-	35	8	-	-	3	3	-	-	14	-
2 912	418	2 549	560	1 495	94	775	105	450	69	2 196	284
160	28	337	6	120	8	21	21	9	-	126	14
161	23	65	18	14	-	6	-	17	-	29	149
5	-	50	35	35	-	6	-	5	-	17	-
472	73	1 512	487	355	34	553	105	303	58	1 383	211
2 099	294	566	49	971	52	187	-	116	-	626	59
15	-	19	-	-	-	2	-	-	-	15	-
137	25	631	149	1 135	75	200	72	48	27	547	111
-	-	6	2	7	-	-	-	11	7	126	5
50	-	149	22	875	58	122	59	37	20	161	35
87	25	476	145	253	17	78	13	104	10	497	71
1 037	287	1 225	209	386	102	188	84	104	10	1 280	250
21	-	28	-	26	-	9	-	2	-	57	-
-	-	-	-	-	-	-	-	-	-	-	-
19	5	12	-	42	-	-	-	-	-	5	3
604	206	413	111	202	83	86	39	11	5	438	153
15	7	50	9	4	-	19	14	-	-	40	19
13	-	6	-	6	6	74	31	91	5	14	14
365	69	722	89	106	13	-	-	-	-	726	61
14 459	2 560	3 784	944	5 614	339	1 842	357	994	436	4 445	576
330	330	429	89	333	34	88	32	94	21	349	51
1 464	285	379	81	241	34	61	18	26	19	581	23
241	45	50	8	92	50	27	14	38	2	292	56
155	62	33	19	28	7	20	-	2	-	57	15
-	-	-	-	-	-	-	-	-	-	23	9
21	2	14	6	24	7	-	-	-	-	6	-
-	-	-	-	-	-	-	-	-	-	-	-
134	60	19	13	4	-	20	-	2	2	17	9
-	-	-	-	-	-	-	-	-	-	-	-
12 459	1 925	3 156	736	5 169	283	1 702	315	781	314	3 927	424
134	12	65	7	136	7	57	-	20	-	200	-
12 325	1 913	3 091	729	5 033	276	1 645	315	761	314	3 727	424
359	238	158	100	81	15	32	10	108	99	130	76
31	2	21	2	45	8	15	-	-	-	13	-
13	13	17	-	-	-	-	-	2	2	-	19
186	146	89	80	9	-	10	10	89	89	57	52
116	73	20	12	19	7	7	-	17	8	54	18
6	4	11	6	8	-	7	-	-	-	6	6
22	5	8	-	3	-	-	-	9	2	16	16
6	-	-	-	-	-	-	-	2	2	10	10
-	-	-	-	3	-	-	-	-	-	5	-
16	5	-	-	3	-	-	-	7	-	-	-
53 310	35 883	21 984	15 133	18 390	12 438	5 216	3 437	3 553	2 528	17 561	11 809
3 620	1 024	1 329	430	1 157	367	404	67	265	156	1 332	430
1 211	545	406	236	257	255	123	42	122	86	565	277
62	38	65	2	19	7	7	-	7	7	80	29
390	355	351	120	249	81	68	12	67	54	235	91
61	-	-	-	13	13	-	-	-	-	-	-
1 626	86	507	72	319	11	206	13	69	14	452	33
1 323	881	764	462	419	256	157	98	116	62	536	332
1 257	835	742	437	394	246	157	98	116	46	500	320
66	46	42	25	25	10	-	-	23	16	36	21

Employed Persons by Detailed Industry and Sex: 1980—Con.

Employed persons 16 years and over—Con

Technical, sales, and administrative support occupations— <i>Can</i>	Administrative support occupations, including clerical— <i>Can</i>
Serianes, stenographers, and typists	Serianes, stenographers, and typists
Information clerks	Information clerks
Hotel clerks	Hotel clerks
Transportation ticket and reservation agents	Transportation ticket and reservation agents
Receptionists	Receptionists
Information clerks, n e c	Information clerks, n e c
Records processing occupations, except financial	Records processing occupations, except financial
Classified-ad clerks	Classified-ad clerks
Correspondence clerks	Correspondence clerks
Order clerks	Order clerks
Personnel clerks, except payroll and timekeeping	Personnel clerks, except payroll and timekeeping
Library clerks	Library clerks
File clerks	File clerks
Records clerks	Records clerks
Financial records processing occupations	Financial records processing occupations
Bookkeepers, accounting, and auditing clerks	Bookkeepers, accounting, and auditing clerks
Payroll and timekeeping clerks	Payroll and timekeeping clerks
Billing clerks	Billing clerks
Credit and rate clerks	Credit and rate clerks
Billing, posting, and calculating machine operators	Billing, posting, and calculating machine operators
Duplicating, mail, and other office machine operators	Duplicating, mail, and other office machine operators
Duplicating machine operators	Duplicating machine operators
Mail preparing and paper handling machine operators	Mail preparing and paper handling machine operators
Office machine operators, n e c	Office machine operators, n e c
Communications equipment operators	Communications equipment operators
Telephone operators	Telephone operators
Telegraphers	Telegraphers
Communications equipment operators, n e c	Communications equipment operators, n e c
Mail and message distributing occupations	Mail and message distributing occupations
Postal clerks, except mail carriers	Postal clerks, except mail carriers
Mail carriers, postal service	Mail carriers, postal service
Mail clerks, except postal service	Mail clerks, except postal service
Messengers	Messengers
Material recording, scheduling, and distributing clerks	Material recording, scheduling, and distributing clerks
Dispatchers	Dispatchers
Production coordinators	Production coordinators
Traffic, shipping, and receiving clerks	Traffic, shipping, and receiving clerks
Stock and inventory clerks	Stock and inventory clerks
Meter readers	Meter readers
Weights, measurers, and checkers	Weights, measurers, and checkers
Samplers	Samplers
Expeditors	Expeditors
Material recording, scheduling, and distributing clerks, n e c	Material recording, scheduling, and distributing clerks, n e c
Adjusters and investigators	Adjusters and investigators
Insurance adjusters, examiners, and investigators	Insurance adjusters, examiners, and investigators
Investigators and adjusters, except insurance	Investigators and adjusters, except insurance
Eligibility clerks, social welfare	Eligibility clerks, social welfare
Bill and account collectors	Bill and account collectors
Miscellaneous administrative support occupations	Miscellaneous administrative support occupations
General office clerks	General office clerks
Bank tellers	Bank tellers
Proofreaders	Proofreaders
Data-entry keyers	Data-entry keyers
Statistical clerks	Statistical clerks
Teachers' aides	Teachers' aides
Administrative support occupations, n e c	Administrative support occupations, n e c

Manufacturing, durable goods—Con													
Furniture and fixtures		Stone, clay, glass, and concrete products								Metal industries			
		Glass and glass products		Cement, concrete, gypsum, and plaster products		Structural clay products		Pottery and related products		Miscellaneous nonmetallic mineral and stone products		Blast furnaces, steelworks, rolling and finishing mills	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
11 716	11 547	5 815	5 793	4 673	4 584	1 397	1 373	908	902	4 684	4 647	12 946	12 642
10 543	10 413	5 302	5 285	4 389	4 306	1 274	1 250	793	787	4 222	4 197	10 411	10 266
1 354	1 344	59	59	23	23	19	19	11	11	52	52	441	430
1 119	1 080	454	449	261	255	104	104	104	104	410	398	2 094	1 946
1 246	1 209	442	392	377	334	150	150	85	84	275	244	1 049	731
—	95	55	48	36	28	44	44	1	—	26	19	162	96
21	13	16	—	—	—	—	—	—	—	9	—	171	13
1 025	1 025	317	295	294	280	101	101	72	72	214	214	620	555
84	76	34	41	47	26	5	5	12	12	26	11	96	67
3 074	2 294	1 569	1 052	665	367	294	128	207	154	1 219	689	3 829	1 865
48	27	3	—	6	—	10	5	—	—	18	10	24	—
66	36	63	42	—	—	70	22	—	—	104	66	243	103
1 400	1 054	507	354	331	212	132	48	78	67	512	304	1 723	696
191	160	120	113	64	64	8	2	19	17	63	49	577	429
—	—	—	—	—	—	—	—	—	—	—	—	—	—
1 345	1 006	840	511	242	79	74	51	107	67	496	247	1 113	562
24	11	36	32	22	12	—	—	3	3	26	13	149	75
8 515	7 693	3 368	2 905	4 945	4 319	946	839	469	397	2 541	2 252	8 673	5 177
6 336	5 754	2 390	2 062	4 211	3 751	681	605	286	234	1 862	1 688	4 668	3 079
1 261	1 158	611	551	422	316	163	141	129	121	366	312	2 143	1 152
714	635	241	225	258	228	74	70	37	35	158	145	942	637
143	97	103	49	44	14	10	12	17	7	103	67	757	213
61	49	23	18	10	10	11	11	—	—	52	40	163	96
144	108	56	43	17	17	—	—	—	—	25	23	229	128
29	26	13	6	5	5	—	—	—	—	9	9	127	74
30	17	5	3	—	—	—	—	—	—	16	14	26	13
85	65	38	32	12	12	—	—	—	—	—	—	76	41
364	307	147	140	100	70	19	17	37	37	120	120	585	392
309	296	147	140	90	70	19	17	37	37	120	120	508	375
48	11	—	—	10	—	—	—	—	—	—	—	72	19
7	—	—	—	—	—	—	—	—	—	—	—	5	—
496	216	341	144	233	78	47	9	50	34	84	38	918	242
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
360	186	240	112	160	54	47	9	44	28	79	38	711	198
136	30	101	32	73	24	6	6	6	6	5	—	207	44
15 043	4 377	5 122	1 536	3 685	633	1 118	292	859	265	4 257	1 151	22 210	3 304
112	30	72	10	1	204	37	9	—	—	44	18	340	49
2 166	1 013	953	340	544	80	156	61	101	63	849	316	6 011	1 127
7 859	1 228	2 143	349	575	74	566	419	419	111	1 842	401	6 463	589
3 501	1 463	1 530	652	750	142	310	111	180	52	1 046	289	5 018	815
—	—	—	—	—	—	—	—	—	—	—	—	—	—
307	128	152	51	472	103	32	9	47	15	238	24	2 071	307
12	2	6	6	—	—	—	—	—	—	—	—	19	6
1 023	475	243	114	54	16	17	5	97	16	192	90	2 100	393
63	38	23	14	34	14	—	—	15	8	46	13	188	19
973	670	253	149	172	51	59	13	68	33	192	128	576	194
—	—	—	—	—	—	—	—	—	—	—	—	—	—
772	568	210	113	140	31	59	13	68	33	164	100	502	145
201	102	39	32	32	20	—	—	—	—	28	28	74	49
6 796	5 557	2 758	2 087	1 947	1 362	625	451	489	404	2 296	1 755	12 131	6 801
4 774	4 037	1 535	1 220	1 330	930	359	283	348	288	1 432	1 108	7 339	3 707
—	—	—	—	—	—	—	—	—	—	—	—	—	—
15	15	—	—	5	5	2	2	—	—	—	—	18	12
1 173	1 143	642	612	313	305	136	115	90	85	538	519	2 595	2 389
142	87	162	135	79	50	75	26	18	18	81	52	1 087	470
17	6	—	—	—	—	7	—	—	—	—	—	18	—
675	269	419	120	220	72	46	25	33	13	245	76	1 074	205

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Manufacturing, durable goods—Con.									
	Furniture and fixtures				Stone, clay, glass, and concrete products				Metal industries	
	Total	Female	Total	Female	Cement, concrete, gypsum, and plaster products	Structural clay products	Pottery and related products	Miscellaneous nonmetallic mineral and stone products	Total	Female
Service occupations, except protective and household	9 796	1 689	5 948	898	3 840	307	1 035	3 005	19 048	2 753
Private household occupations	1 891	71	925	85	580	16	140	472	5 180	298
Supervisors, protective service occupations	14	—	17	—	16	—	6	28	224	—
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	—	—	5	29	—
Supervisors, police and detectives	—	—	—	—	—	—	—	—	—	—
Supervisors, guards	14	—	8	—	16	—	6	23	195	—
Firefighting and fire prevention occupations	28	—	17	2	7	—	—	9	328	—
Fire inspection and fire prevention occupations	21	—	4	2	—	—	—	—	161	—
Firefighting occupations	7	—	13	—	7	—	—	—	167	—
Police and detectives	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—
Guards	1 849	71	891	83	557	16	134	435	4 628	298
Crossing guards	—	—	—	—	—	—	—	—	8	—
Guards and police, except public service	1 847	71	886	78	557	16	134	429	4 598	298
Protective service occupations, n.e.c.	2	—	5	5	—	—	—	—	22	—
Service occupations, except protective and household	7 905	1 618	5 023	813	3 260	291	895	2 533	13 868	2 455
Food preparation and service occupations	276	169	113	79	91	23	64	78	558	410
Supervisors, food preparation and service occupations	—	—	—	—	—	—	—	—	21	—
Bar tenders	—	—	—	—	—	—	—	—	2	—
Waiters and waitresses	66	47	26	13	7	—	11	3	22	—
Cooks, except short order	119	72	36	36	59	16	21	43	109	103
Short-order cooks	—	—	—	—	—	—	—	—	18	15
Food counter, fountain and related occupations	—	—	—	—	—	—	—	—	26	26
Kitchen workers, food preparation	25	17	9	9	—	—	12	2	17	—
Waiters and waitresses, assistants	11	6	19	12	13	7	—	—	16	7
Waiters and waitresses	12	12	—	—	—	—	—	—	—	—
Miscellaneous food preparation occupations	41	15	16	9	12	—	20	15	150	117
Health service occupations	52	50	85	71	—	—	—	—	17	170
Dental assistants	—	—	—	—	—	—	—	—	—	87
Nursing aides, except nursing	2	2	12	12	—	—	—	—	—	—
Nursing aides, orderlies, and attendants	50	48	73	59	—	—	—	—	25	13
Cleaning and building service occupations, except household	7 403	1 310	4 691	606	3 131	253	819	2 392	12 939	1 914
Supervisors, cleaning and building service workers	62	2	45	—	85	—	17	46	224	—
Maid and housemen	508	272	220	53	118	18	32	135	1 234	268
Janitors and cleaners	6 673	1 006	4 403	553	2 907	235	770	2 201	11 448	1 646
Elevator operators	160	30	3	—	21	—	—	10	33	—
Pest control occupations	—	—	—	—	—	—	—	—	—	—
Personal service occupations	174	89	134	57	38	15	12	4	201	44
Supervisors, personal service occupations	—	—	—	—	—	—	—	—	5	—
Barbers	25	7	—	—	—	—	—	—	11	—
Hairdressers and cosmetologists	5	—	—	—	—	—	2	—	2	—
Attendants, amusement and recreation facilities	28	2	6	—	—	—	2	6	92	21
Guides	—	—	41	19	—	6	2	7	28	9
Ushers	8	—	7	7	—	—	—	—	—	—
Public transportation attendants	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	—	—	—	—	—	—	—
Welfare service aides	6	—	6	—	—	—	—	—	—	—
Child care workers, except private household	—	—	—	—	—	—	—	—	—	—
Child care workers, except private household	6	—	6	—	—	—	—	—	—	—
Personal service occupations, n.e.c.	102	74	74	31	38	15	8	27	16	11
Farming, forestry, and fishing occupations	484	62	101	11	133	16	14	56	343	38
Farm operators and managers	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	5	—	7	—	—	—	—	—	2	—
Related agricultural occupations	92	29	49	9	105	16	2	44	130	19
Supervisors, related agricultural occupations	6	—	—	—	6	—	—	—	7	—
Groundskeepers and gardeners, except farm	80	6	47	7	91	16	2	44	109	7
Animal caretakers, except farm	6	2	2	2	—	—	—	—	7	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	—	—	8	—	—	—	7	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.															
	Furniture and fixtures					Stone, clay, glass, and concrete products					Metal industries				
	Glass and glass products		Cement, concrete, gypsum, and plaster products		Structural clay products		Pottery and related products		Miscellaneous nonmetallic mineral and stone products		Blast furnaces, steelworks, rolling and finishing mills				
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female			
Farming, forestry, and fishing occupations—Con.															
Supervisors, forestry and logging occupations	387	28	39	2	23	—	—	—	12	5	4	—			
Forestry workers, except logging	23	6	28	2	18	—	—	—	—	—	—	—			
Timber cutting and logging occupations	20	8	28	2	18	—	—	—	12	5	4	—			
Fishers, hunters, and trappers	344	14	11	—	5	—	—	—	—	—	—	—			
Caplains and other officers, fishing vessels	—	—	6	—	5	—	—	—	—	—	—	—			
Hunters and trappers	—	—	—	—	—	—	—	—	—	—	—	—			
Precision production, craft, and repair occupations	128 663	18 402	41 480	3 292	35 801	593	9 413	594	5 743	938	1 547	165 837			
Mechanics and repairers	8 819	886	10 884	252	12 253	65	2 465	32	1 094	69	112	53 368			
Supervisors, mechanics and repairers	150	130	130	6	11 309	65	2 402	32	1 075	69	112	1 691			
Mechanics and repairers, except supervisors	8 669	886	10 754	246	11 944	65	2 402	32	1 075	69	112	51 677			
Vehicle and mobile equipment mechanics and repairers	421	30	735	33	3 759	9	354	—	23	—	3	3 870			
Automobile mechanics	260	18	331	33	2 194	6	134	—	8	—	1	1 068			
Bus, truck, and stationary engine mechanics	47	—	79	—	946	3	66	—	47	—	—	356			
Aircraft engine mechanics	9	—	11	—	19	—	2	—	9	—	—	64			
Small engine repairers	3	2	17	—	6	—	20	—	—	—	—	2			
Automobile body and related repairers	17	10	126	—	34	—	115	—	14	—	—	63			
Aircraft mechanics, except engine	67	—	169	—	513	—	—	—	7	—	2	8			
Heavy equipment mechanics	18	—	8	—	41	—	4	—	228	—	1	2 294			
Farm equipment mechanics	—	—	—	—	—	—	—	—	—	—	—	—			
Industrial machinery repairers	4 537	248	5 382	97	2 902	14	1 122	21	640	36	60	9 237			
Machinery maintenance occupations	130	17	486	31	791	3	100	—	34	—	9	1 628			
Electrical and electronic equipment repairers	261	33	246	6	135	12	25	—	12	—	—	3 233			
Electronic repairers, communications and industrial equipment	112	32	174	6	91	—	19	—	6	—	—	58			
Data processing equipment repairers	10	—	8	—	9	—	—	—	14	—	—	138			
Household appliance and power tool repairers	50	—	7	—	1	—	6	—	—	—	—	12			
Telephone line installers and repairers	—	—	—	—	—	—	—	—	—	—	—	2			
Telephone installers and repairers	69	—	25	—	—	—	—	—	22	—	—	109			
Miscellaneous electrical and electronic equipment repairers	20	1	32	—	34	12	—	—	6	—	—	15			
Heating, air conditioning, and refrigeration mechanics	111	2	129	5	12	—	4	—	—	—	—	53			
Miscellaneous mechanics and repairers	3 209	556	3 776	74	4 345	27	797	11	366	33	40	638			
Camera, watch, and musical instrument repairers	17	2	65	—	49	—	—	—	27	—	—	33 071			
Locksmiths and safe repairers	13	13	2	—	51	—	10	—	—	—	—	178			
Office machine repairers	11	—	7	—	—	—	—	—	—	—	—	27			
Mechanical controls and valve repairers	9	—	5	—	30	11	—	—	8	—	6	16			
Elevator installers and repairers	15	8	37	—	5	—	5	—	5	—	—	172			
Millwrights	552	35	973	6	403	—	78	—	128	—	—	24			
Specified mechanics and repairers, n.e.c.	1 377	335	1 300	35	1 734	7	308	—	108	10	8	20 301			
Not specified mechanics and repairers	1 215	163	1 387	33	2 073	9	396	11	122	23	16	8 407			
Construction trades, except supervisors	16 549	999	5 994	374	6 879	143	1 822	129	812	172	95	35 378			
Supervisors, construction occupations	326	6	125	2	609	13	111	7	23	—	—	1 972			
Supervisors, brickmasons, stonemasons, and tile setters	187	—	5	—	4	2	41	—	—	—	—	94			
Supervisors, carpenters and related workers	14	—	2	—	59	—	—	—	—	—	—	118			
Supervisors, electricians and power transmission installers	4	—	50	—	157	—	6	—	8	—	—	1 032			
Supervisors, painters, paperhangers, and plasterers	4	—	7	—	5	—	—	—	—	—	—	6			
Supervisors, plumbers, pipefitters, and steamfitters	121	6	61	2	4	—	—	—	15	—	—	77			
Supervisors, n.e.c.	16 223	993	5 869	372	6 270	130	1 711	122	3 421	95	—	645			
Construction trades, except supervisors	16 223	993	5 869	372	6 270	130	1 711	122	3 421	95	—	468			
Brickmasons and stonemasons	27	—	231	8	638	15	582	23	288	97	7	33 406			
Tile setters, hard and soft	12	—	—	—	18	—	270	—	2	—	—	5 912			
Carpet installers	60	—	—	—	—	—	7	—	43	—	—	38			
Carpenters	12 777	623	695	46	657	—	207	5	97	13	11	2 211			
Drywall installers	34	10	17	2	241	—	—	—	24	—	—	45			
Electricians	1 155	46	2 225	51	1 716	—	298	—	136	—	—	14 600			
Electrical power installers and repairers	15	15	81	6	13	—	15	5	—	—	—	125			
Painters, construction and maintenance	1 480	216	232	49	187	19	118	80	219	38	20	825			
Paperhangers	12	—	7	—	66	—	—	—	131	—	—	—			

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.																					
United States	Furniture and fixtures			Glass and glass products			Cement, concrete, gypsum, and plaster products			Stone, clay, glass, and concrete products			Pottery and related products			Miscellaneous nonmetallic mineral and stone products			Metal industries		
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
Employed persons 16 years and over—Con.																					
Precision production, craft, and repair occupations—Con.																					
Construction trades—Con.																					
Construction trades, except supervisors—Con.																					
Plasterers																					
Plumbers, pipefitters, and steamfitters																					
Concrete and terrazzo finishers																					
Glaaziers																					
Insulation workers																					
Paving, surfacing, and tamping equipment operators																					
Roofers																					
Sheetmetal duct installers																					
Structural metal workers																					
Drillers, earth																					
Construction trades, n.e.c.																					
Extractive occupations																					
Supervisors, extractive occupations																					
Drillers, oil well																					
Explosives workers																					
Mining machine operators																					
Mining occupations, n.e.c.																					
Precision production occupations																					
Supervisors, production occupations																					
Precision metalworking occupations																					
Tool and die makers																					
Precision assemblers, metal																					
Machinists																					
Boilermakers																					
Precision grinders, filers, and tool sharpeners																					
Patternmakers and model makers, metal																					
Lay-out workers																					
Precious stones and metals workers (jewelers)																					
Engravers, metal																					
Sheet metal workers																					
Miscellaneous precision metal workers																					
Precision woodworking occupations																					
Patternmakers and model makers, wood																					
Cabinet makers and bench carpenters																					
Furniture and wood finishers																					
Miscellaneous precision woodworkers																					
Precision textile, apparel, and furnishings machine workers																					
Dressmakers																					
Tailors																					
Lipholsters																					
Shoe repairs																					
Apparel and fabric patternmakers																					
Miscellaneous precision apparel and fabric workers																					
Precision workers, assorted materials																					
Hand molders and shapers, except jewelers																					
Patternmakers, lay-out workers, and cutters																					
Optical goods workers																					
Dental laboratory and medical appliance technicians																					
Bookbinders																					
Electrical and electronic equipment assemblers																					
Miscellaneous precision workers, n.e.c.																					
Precision food production occupations																					
Butchers and meat cutters																					
Bakers																					
Food batchmakers																					
Precision inspectors, testers, and related workers																					
Inspectors, testers, and graders																					
Adjusters and calibrators																					

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

United States

Manufacturing, durable goods—Con.

Furniture and fixtures				Glass and glass products				Cement, concrete, gypsum, and plaster products				Structural clay products				Pottery and related products				Miscellaneous nonmetallic mineral and stone products				Metal industries			
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con																											
Precision production, craft, and repair occupations—Con																											
Plant and system operators—Con																											
Water and sewage treatment plant operators																											
Power plant operators																											
Stationary engineers																											
Miscellaneous plant and system operators																											
Operators, fabricators, and laborers																											
Machine operators, assemblers, and inspectors																											
Machine operators and tenders, except precision																											
Metalworking and plastic working machine operators																											
Lathe and turning machine operators																											
Lathe and turning machine set-up operators																											
Lathe and turning machine operators																											
Milling and planing machine operators																											
Milling and planing machine operators																											
Punching and stamping press machine operators																											
Rolling machine operators																											
Rolling machine operators																											
Drilling and boring machine operators																											
Drilling and boring machine operators																											
Grinding, abrading, buffing, and polishing machine operators																											
Grinding, abrading, buffing, and polishing machine operators																											
Forging machine operators																											
Forging machine operators																											
Numerical control machine operators																											
Numerical control machine operators																											

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

Manufacturing, durable goods—Con.																																																													
Furniture and fixtures														Stone, clay, glass, and concrete products														Metal industries																																	
Glass and glass products														Cement, concrete, gypsum, and plaster products														Pottery and related products														Miscellaneous nonmetallic mineral and stone products										Blast furnaces, steelworks, rolling and finishing mills									
Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female																							
213	147	913	435	2 521	1 180	30	35	1 758	35	6 930	419	37	13	1 909	86	2 799	372	1 035	471	7 930	9	28	9	1 515	36	2	2	47	5	18 040	410	1 169	335	1 537	38	1 537	38																								
840	47	2 521	180	6 262	341	1 452	522	3 047	193	4 487	64	1 909	86	3 333	26	3 114	871	3 960	2 088	7 930	9	28	9	1 515	36	2	2	47	5	18 040	410	1 169	335	1 537	38	1 537	38																								
4 860	1 318	7 983	16 557	4 036	7 180	30	35	1 758	35	6 930	419	37	13	1 909	86	2 799	372	1 035	471	7 930	9	28	9	1 515	36	2	2	47	5	18 040	410	1 169	335	1 537	38	1 537	38																								
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																								
98	69	63	35	7 983	16 557	4 036	7 180	30	35	1 758	35	6 930	419	37	13	1 909	86	2 799	372	1 035	471	7 930	9	28	9	1 515	36	2	2	47	5	18 040	410	1 169	335	1 537	38																								
10 495	3 335	16 557	4 036	7 180	30	35	1 758	35	6 930	419	37	13	1 909	86	2 799	372	1 035	471	7 930	9	28	9	1 515	36	2	2	47	5	18 040	410	1 169	335	1 537	38	1 537	38																									
29 093	9 565	4 036	7 180	30	35	1 758	35	6 930	419	37	13	1 909	86	2 799	372	1 035	471	7 930	9	28	9	1 515	36	2	2	47	5	18 040	410	1 169	335	1 537	38	1 537	38																										
78 538	25 456	18 501	7 180	6 930	419	37	13	1 909	86	2 799	372	1 035	471	7 930	9	28	9	1 515	36	2	2	47	5	18 040	410	1 169	335	1 537	38	1 537	38	1 537	38	1 537	38																										
8 457	1 095	4 487	64	3 047	193	4 487	64	3 047	193	4 487	64	3 047	193	4 487	64	3 047	193	4 487	64	3 047	193	4 487	64	3 047	193	4 487	64	3 047	193	4 487	64	3 047	193	4 487	64																										
129	46	286	152	14 820	6 098	1 715	303	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32																									
68 466	23 440	14 820	6 098	1 715	303	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32																									
196	125	303	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32	533	32																										
178	76	1 028	602	2 297	132	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																										
797	531	1 028	602	2 297	132	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																										
3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																										
94	17	36	3	309	41	137	13	1 022	180	1 746	978	2 010	1 198	1 844	1 088	12	21	29	30	11	165	104	2 128	112	18 054	2 112	1 844	1 088	12	21	29	30	11	165	104																										
218	126	309	41	137	13	1 022	180	1 746	978	2 010	1 198	1 844	1 088	12	21	29	30	11	165	104	2 128	112	18 054	2 112	1 844	1 088	12	21	29	30	11	165	104	2 128	112																										
11 445	6 382	20 910	15 506	33 434	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13																										
10 304	6 008	19 913	14 777	33 434	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13																										
115	70	397	298	46	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8																											
414	53	42	22	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32																											
522	245	558	409	90	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4																											
19 055	967	12 192	859	43 678	363	33 434	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13																										
11 025	183	3 392	93	33 434	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13																										
14	9	15	52	31 124	19	2 084	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44																											
7 847	138	2 691	52	31 124	19	2 084	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44																											
2 797	18	571	2	2 084	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44																											
163	3	28	2	2 084	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44	14	44																											
20	5	68	23	159	10	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7																											
178	9	68	23	159	10	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7																											
6	1	19	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																										
11	—	11	—	113	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																										
—	—	2	—	67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																										
11	—	—	—	46	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																										
—	—	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																										
25	—	24	6	181	7	2	2	181	7	2	2	181	7	2	2	181	7	2	2	181	7	2	2	181	7	2	2	181	7	2	2	181	7	2	2																										
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																										
7	—	17	6	52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																										
18	—	12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—</																																						

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

[illegible]

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

[illegible]

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

United States

United States									
Metal industries—Con									
Iron and steel foundries	Primary aluminum industries		Other primary metal industries		Cutlery, handtools, and other hardware		Fabricated structural metal products		Metal forgings and stampings
Total	Total	Female	Total	Female	Total	Female	Total	Female	Total
209	341	40	1 015	154	111	34	262	17	103
9	—	—	13	—	6	—	95	6	—
194	284	35	872	137	103	34	133	11	81
2	—	—	41	11	—	—	19	—	8
4	16	—	54	—	—	—	5	—	—
—	21	—	11	—	—	—	—	—	5
—	13	5	2	—	—	—	—	—	—
—	—	—	8	6	—	—	10	—	—
—	—	—	12	—	2	—	—	11	3
—	7	—	2	—	—	—	—	—	—
31	7	—	28	—	26	10	7	—	6
16	7	—	18	—	—	—	7	—	—
13	—	—	10	—	10	—	—	—	—
—	—	—	10	—	—	—	—	—	—
2	—	—	—	—	10	10	—	—	—
—	—	—	—	—	6	—	—	—	—
257	294	277	236	234	112	98	189	182	170
232	272	262	230	228	106	98	189	182	170
5	7	7	6	6	6	—	—	—	—
6	7	—	—	—	—	—	—	—	—
8	8	8	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
7	6	—	—	—	9	9	14	8	27
2	41	6	54	25	26	13	93	9	8
—	—	—	6	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
2	41	6	48	25	26	13	93	9	8
—	—	—	—	—	—	—	—	—	—
—	29	7	47	39	—	—	16	9	15
—	29	7	47	39	—	—	9	9	11
—	—	—	—	—	—	—	7	—	—
39	109	16	227	46	157	57	268	35	54
39	105	12	221	46	157	57	252	31	47
—	—	—	6	—	—	—	4	—	—
—	4	4	—	—	—	—	—	—	—
—	—	—	—	—	—	—	12	—	—
—	7	7	—	—	7	—	24	7	7
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	7	7	—
—	7	7	—	—	7	—	2	—	—
—	—	—	—	—	—	—	15	—	—
50	49	10	97	6	38	5	99	18	53
50	49	10	97	6	38	5	99	18	53
—	—	—	—	—	—	—	—	—	—
296	424	84	509	161	392	67	1 208	155	396
—	—	—	—	—	—	—	—	—	—
26	17	—	38	5	9	—	75	36	9
155	146	11	184	21	244	32	827	56	233
—	7	—	—	—	—	—	20	—	—
—	3	—	—	—	—	—	3	—	—
—	—	—	—	—	—	—	—	—	—
31	45	12	94	39	41	19	105	19	93

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

Manufacturing, durable goods—Con.													
Metal industries—Con.													
Iron and steel foundries		Primary aluminum industries		Other primary metal industries		Cutlery, handtools, and other hardware		Fabricated structural metal products		Screw machine products		Metal forgings and stampings	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
24 663	10 987	23 853	11 516	37 865	18 456	26 430	14 719	76 919	35 531	13 774	7 092	25 070	12 805
4 050	549	3 993	625	6 124	1 012	2 254	333	15 962	1 455	970	135	3 070	359
81	62	41	2	95	15	23	23	82	23	26	7	67	37
5	—	10	—	2	—	—	—	18	—	—	—	24	7
—	—	—	—	8	—	—	—	—	—	—	—	—	—
—	—	—	—	8	8	—	—	—	—	—	—	—	—
—	—	—	—	17	—	2	2	16	21	7	—	—	—
55	50	6	2	7	7	16	16	28	21	12	—	30	30
21	12	16	—	59	—	5	5	20	—	—	—	13	—
2 989	331	2 631	336	3 946	557	1 402	153	13 501	1 069	648	79	2 270	131
74	—	221	14	413	15	87	13	316	33	13	—	167	20
123	15	46	6	50	2	50	12	83	9	6	—	39	2
58	10	35	—	15	—	95	2	59	—	16	—	36	—
1 757	263	1 436	225	2 467	471	283	78	4 180	387	335	60	778	66
977	43	874	91	988	69	887	48	8 846	640	278	19	1 250	43
—	—	19	—	13	—	—	—	17	—	—	—	—	—
382	32	356	64	669	116	146	24	478	35	64	12	155	38
—	—	—	—	18	—	—	—	—	—	—	—	—	—
—	—	98	29	243	59	37	8	117	16	7	—	62	6
95	3	258	35	408	57	101	23	361	19	57	12	92	32
279	29	965	223	1 414	324	683	133	1 901	328	232	44	578	153
19	—	11	—	25	—	29	—	65	—	—	—	27	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
8	—	9	—	8	—	4	—	27	—	—	—	—	—
273	63	408	136	622	171	429	117	1 098	240	127	34	305	106
19	6	21	8	17	7	23	5	93	2	23	—	41	6
—	—	—	—	6	—	—	—	8	—	—	—	28	21
279	55	508	64	736	140	193	11	610	78	82	10	177	20
2 444	221	3 091	453	4 258	697	4 273	709	10 918	1 076	2 014	424	2 770	667
143	—	195	6	302	52	243	48	780	27	128	46	204	49
141	—	178	6	285	52	219	46	716	27	122	46	204	49
2	—	17	—	17	—	24	—	64	—	6	—	—	—
21	—	15	—	15	—	76	40	33	13	12	6	20	13
—	—	—	—	—	—	—	—	—	—	—	—	—	—
13	—	10	—	8	—	—	—	6	6	—	—	20	13
—	—	—	—	—	—	76	40	27	7	12	6	—	—
8	—	5	—	7	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
2 137	174	2 720	344	3 801	541	3 816	553	9 660	826	1 777	326	2 393	508
328	—	139	9	424	17	131	—	1 169	14	96	—	193	13
1 809	174	2 581	335	3 377	524	3 685	553	8 491	812	1 681	326	2 200	495
126	47	121	69	116	80	128	66	427	200	90	39	68	18
27	—	22	—	5	—	34	—	73	8	9	7	27	2
14	2	6	—	12	12	—	—	—	—	—	—	2	2
24	13	22	13	46	31	61	54	108	76	19	7	13	8
53	32	71	56	48	32	22	12	233	111	57	20	18	6
8	—	—	—	5	5	11	—	13	5	5	5	8	—
17	—	40	34	24	24	10	2	18	10	7	7	85	79
11	—	34	34	24	24	—	—	10	10	—	—	79	79
—	—	6	—	—	—	—	—	—	—	—	—	—	—
6	—	—	—	—	—	10	2	8	—	7	7	6	—
18 169	10 217	16 769	10 438	27 483	16 747	19 903	13 677	50 039	33 000	10 790	6 533	19 230	11 779
1	208	1	267	2	104	1	392	3	246	603	106	1 541	321
344	86	362	115	627	242	488	253	1 101	514	191	65	479	172
16	7	68	22	92	21	45	22	127	45	16	—	13	11
228	77	309	123	524	94	266	119	632	263	115	36	300	81
—	—	19	5	2	—	7	7	18	—	—	—	—	—
620	20	509	32	859	95	586	85	1 368	112	281	—	749	57
620	390	553	307	1	540	611	375	1 401	847	294	199	587	382
360	360	531	293	979	502	535	340	1 360	827	282	187	541	343
50	30	22	14	51	38	76	35	41	20	12	12	46	39

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—
 Technicians and related support occupations—
 Health technologists and technicians—
 Clinical laboratory technologists and technicians—
 Dental hygienists—
 Health record technologists and technicians—
 Radiologic technicians—
 Licensed practical nurses—
 Health technologists and technicians, n.e.c.—
 Engineering and related technologists and technicians—
 Electrical and electronic technicians—
 Industrial engineering technicians—
 Mechanical engineering technicians—
 Engineering technicians, n.e.c.—
 Drafting occupations—
 Surveying and mapping technicians—
 Science technicians—
 Biological technicians—
 Chemical technicians—
 Science technicians, n.e.c.—
 Technicians, except health, engineering, and science—
 Airplane pilots and navigators—
 Aircraft controllers—
 Broadcast equipment operators—
 Tool and die makers—
 Tool and die makers, numerical control—
 Legal assistants—
 Technicians, n.e.c.—
 Sales occupations—
 Supervisors and proprietors, sales occupations—
 Salaried—
 Self-employed—
 Sales representatives, finance and business services—
 Insurance sales occupations—
 Real estate sales occupations—
 Securities and financial services sales occupations—
 Advertising and related sales occupations—
 Sales occupations, other business services—
 Sales representatives, commodities, except retail—
 Sales engineers—
 Sales representatives, mining, manufacturing, and wholesale—
 Sales workers, retail and personal services—
 Sales workers, commodities—
 Sales counter clerks—
 Cashiers—
 Street and door-to-door sales workers—
 News vendors—
 Sales related occupations—
 Demonstrators, promoters and models, sales—
 Auctioneers—
 Sales support occupations, n.e.c.—
 Administrative support occupations, including clerical—
 Supervisors, administrative support occupations—
 Supervisors, general office—
 Supervisors, computer equipment operators—
 Supervisors, financial records processing—
 Chief communications operators—
 Supervisors; distribution, scheduling, and adjusting clerks—
 Computer equipment operators—
 Computer operators—
 Peripheral equipment operators—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con															
Metal industries—Con															
Iron and steel foundries		Primary aluminum industries		Other primary metal industries		Cutlery, handtools, and other hardware		Fabricated structural metal products		Screw machine products		Metal forgings and stampings			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
Employed persons 16 years and over—Con															
Technical, sales, and administrative support occupations—Con															
Administrative support occupations, including clerical—Con															
Secretaries, stenographers, and typists—															
Secretaries															
Stenographers															
Typists															
Information clerks															
Interviewers															
Hotel clerks															
Transportation ticket and reservation agents															
Receptionists															
Information clerks, n e c															
Records processing occupations, except financial															
Classified-ad clerks															
Correspondence clerks															
Order clerks															
Personnel clerks, except payroll and timekeeping															
Library clerks															
File clerks															
Records clerks															
Financial records processing occupations															
Bookkeepers, accounting, and auditing clerks															
Payroll and timekeeping clerks															
Billing clerks															
Cost and rate clerks															
Billing, posting, and calculating machine operators															
Duplicating, mail, and other office machine operators															
Duplicating machine operators															
Mail preparing and paper handling machine operators															
Office machine operators, n e c															
Communications equipment operators															
Telephone operators															
Telegraphers															
Communications equipment operators, n e c															
Mail and message distributing occupations															
Postal clerks, except mail carriers															
Mail carriers, except postal service															
Mail carriers, except postal service															
Messengers															
Material recording, scheduling, and distributing clerks															
Dispatchers															
Production coordinators															
Traffic, shipping, and receiving clerks															
Stock and inventory clerks															
Meter readers															
Weighers, measurers, and checkers															
Samplers															
Expeditors															
Material recording, scheduling, and distributing clerks, n e c															
Adjusters and investigators															
Insurance adjusters, examiners, and investigators															
Investigators and adjusters, except insurance															
Eligibility clerks, social welfare															
Bill and account collectors															
Miscellaneous administrative support occupations															
General office clerks															
Bank tellers															
Proofreaders															
Data-entry keyers															
Statistical clerks															
Teachers aides															
Administrative support occupations, n e c															

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.														
Metal industries—Con.														
	Iron and steel foundries		Primary aluminum industries		Other primary metal industries		Cutlery, handtools, and other hardware		Fabricated structural metal products		Screw machine products		Metal forgings and stampings	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Service occupations	6 228	629	5 052	632	6 432	642	3 071	526	7 033	831	1 183	136	4 420	589
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	1 264	70	1 080	101	1 753	70	531	44	1 273	101	183	13	902	82
Supervisors, protective service occupations	31	7	48	—	56	—	27	—	25	—	7	—	44	5
Supervisors, firefighting and fire prevention occupations	6	—	—	—	17	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	25	7	48	—	39	—	27	—	25	—	7	—	39	10
Supervisors, guards	19	—	32	—	30	—	—	—	23	6	—	—	26	10
Fire inspection and fire prevention occupations	19	—	27	—	20	—	—	—	9	6	—	—	20	10
Firefighting occupations	—	—	5	—	10	—	—	—	14	—	—	—	6	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	1 214	63	1 000	101	1 667	70	504	44	1 225	95	176	13	832	72
Guards	1 214	63	1 000	101	1 667	70	504	44	1 225	95	176	13	832	72
Crossing guards	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Guards and police, except public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Service occupations, except protective and household	4 964	559	3 972	531	4 679	572	2 540	482	5 760	730	1 000	123	3 518	507
Food preparation and service occupations	139	97	111	77	132	59	122	76	159	101	34	22	95	56
Supervisors, food preparation and service occupations	13	13	—	—	11	6	—	—	21	14	—	—	3	—
Bakers	—	—	—	—	9	—	—	—	7	—	—	—	—	—
Waiters and waitresses	13	7	12	—	9	9	5	5	12	7	—	—	—	—
Cooks, except short order	60	43	28	28	61	28	49	30	65	43	34	22	23	18
Short-order cooks	7	—	—	—	—	—	—	—	5	—	—	—	—	—
Food counter, fountain and related occupations	14	2	2	—	9	7	—	—	6	6	—	—	—	—
Kitchen workers, food preparation	5	5	—	—	7	—	7	—	6	—	—	—	—	—
Waiters and waitresses, assistants	—	—	19	11	2	—	—	—	—	—	—	—	—	—
Miscellaneous food preparation occupations	27	27	50	24	24	9	61	34	37	31	—	—	10	11
Health service occupations	70	31	48	40	42	29	42	42	35	25	6	6	16	16
Dental assistants	9	9	—	—	6	6	—	—	—	—	—	—	—	—
Health aides, except nursing	—	—	—	—	—	—	—	—	6	—	—	—	—	—
Nursing aides, orderlies, and attendants	56	22	48	40	36	23	42	42	29	25	6	6	16	16
Cleaning and building service occupations, except household	4 730	426	3 729	377	4 452	464	2 348	350	5 520	588	955	90	3 387	425
Supervisors, cleaning and building service workers	171	—	43	—	107	—	33	—	77	—	27	—	41	—
Maid and housemen	194	14	205	65	274	85	142	21	227	68	38	4	197	8
Janitors and cleaners	4 365	412	3 450	310	4 047	379	2 118	329	5 194	520	884	86	3 136	417
Elevator operators	—	—	16	2	16	—	55	—	16	—	6	—	13	—
Pest control occupations	—	—	15	—	8	—	—	—	6	—	—	—	—	—
Personal service occupations	25	5	84	37	53	20	28	14	46	16	5	5	20	10
Supervisors, personal service occupations	—	—	7	—	13	—	—	—	—	—	—	—	—	—
Barbers	—	—	—	—	—	—	—	—	—	—	—	—	4	4
Hairstylists and cosmetologists	—	—	12	12	—	—	5	—	—	—	—	—	6	6
Attendants, amusement and recreation facilities	8	—	20	1	11	3	8	8	9	7	—	—	7	—
Guides	—	—	—	—	3	3	—	—	—	—	—	—	—	—
Ushers	12	—	9	—	—	—	—	—	—	—	—	—	—	—
Public transportation attendants	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	—	9	—	—	—	—	—	—	—	—	—
Welfare service aides	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Child care workers, except private household	—	—	15	15	4	4	9	—	15	—	—	—	2	—
Child care workers, n.e.c.	5	5	21	9	13	13	6	6	22	9	5	5	1	—
Personal service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farming, forestry, and fishing occupations	62	2	91	6	104	21	47	14	117	9	17	—	80	8
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Related agricultural occupations	36	—	83	6	70	21	24	14	69	—	6	—	33	6
Supervisors, related agricultural occupations	—	—	—	—	—	—	—	—	8	—	—	—	—	—
Groundskeepers and gardeners, except farm	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Animal caretakers, except farm	36	—	83	6	70	21	24	14	52	—	6	—	33	6
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	—	—	—	—	—	—	9	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con															
Metal industries—Con															
Iron and steel foundries		Primary aluminum industries		Other primary metal industries		Cultery, handtools, and other hardware		Fabricated structural metal products		Screw machine products		Metal forgings and stampings			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
Employed persons 16 years and over—Con.															
Farming, forestry, and fishing occupations—Con															
Forestry and logging occupations															
Supervisors, forestry and logging workers															
Forestry workers, except logging															
Timber cutting and logging occupations															
Fishers, hunters, and trappers															
Captains and other officers, fishing vessels															
Fishers															
Hunters and trappers															
Precision production, craft, and repair occupations															
Mechanics and repairers															
Supervisors, mechanics and repairers															
Mechanics and repairers, except supervisors															
Vehicle and mobile equipment mechanics and repairers															
Automobile mechanics															
Bus, truck, and stationary engine mechanics															
Aircraft engine mechanics															
Small engine repairers															
Automobile body and related repairers															
Aircraft mechanics, except engine															
Heavy equipment mechanics															
Form equipment mechanics															
Industrial machinery repairers															
Machinery maintenance occupations															
Electrical and electronic equipment repairers															
Electronic repairers, communications and industrial equipment															
Data processing equipment repairers															
Household appliance and power tool repairers															
Telephone line installers and repairers															
Telephone installers and repairers															
Miscellaneous electrical and electronic equipment repairers															
Heating, air conditioning, and refrigeration mechanics															
Miscellaneous mechanics and repairers															
Camera, watch, and musical instrument repairers															
Locksmiths and safe repairers															
Office machine repairers															
Mechanical controls and valve repairers															
Elevator installers and repairers															
Millwrights															
Specified mechanics and repairers, n.e.c.															
Not specified mechanics and repairers															
Construction trades															
Supervisors, construction occupations															
Supervisors, brickmasons, stonemasons, and tile setters															
Supervisors, carpenters and related workers															
Supervisors, electricians and power transmission installers															
Supervisors, painters, paperhangers, and plasterers															
Supervisors, plumbers, pipefitters, and steamfitters															
Supervisors, n.e.c.															
Construction trades, except supervisors															
Brickmasons and stonemasons															
Tile setters, hard and soft															
Carpet installers															
Carpenters															
Drywall installers															
Electricians															
Electrical power installers and repairers															
Painters, construction and maintenance															
Paperhangers															

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States

Manufacturing, durable goods—Con.										
Metal industries—Con.										
Iron and steel foundries	Primary aluminum industries		Other primary metal industries		Cultery, handtools, and other hardware		Fabricated structural metal products		Screw machine products	Metal forgings and stampings
	Total	Female	Total	Female	Total	Female	Total	Female		

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

OCCUPATION BY INDUSTRY

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States											
Manufacturing, durable goods—Con.											
Metal industries—Con.											
Iron and steel foundries		Primary aluminum industries		Other primary metal industries		Cutlery, handtools, and other hardware		Fabricated structural metal products		Screw machine products	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
131	3	110	19	196	67	100	68	128	43	34	91
9 444	219	8 188	186	7 621	324	520	128	1 591	44	270	1 124
2 330	31	371	19	536	33	101	18	254	26	36	201
1 301	69	2 142	318	2 453	549	1 245	394	6 297	484	318	1 889
7	—	—	—	—	—	—	—	—	—	—	—
25	7	51	13	62	12	35	28	203	113	31	41
8 112	789	5 785	685	12 295	2 944	4 478	1 848	19 769	909	3 245	4 527
9 758	861	11 068	1 948	21 792	4 459	13 440	5 831	19 769	2 921	9 047	11 987
13 980	1 698	7 992	1 845	14 320	6 185	17 643	10 620	84 421	9 155	2 810	15 936
8 779	250	3 581	165	4 409	475	2 548	513	58 447	1 476	494	7 304
107	26	11	5	381	271	142	106	266	71	2	1 105
4 871	1 407	4 141	1 589	9 113	5 378	14 617	9 899	25 323	7 545	2 264	8 328
21	—	29	8	26	15	35	7	62	15	12	17
53	3	78	15	87	11	106	36	71	6	7	40
53	—	69	15	37	5	41	17	121	17	15	54
2	—	7	—	—	—	—	—	32	5	—	7
35	—	21	8	10	2	101	10	36	9	—	41
59	12	55	40	57	28	53	32	63	11	16	25
6 757	1 207	4 870	1 543	7 959	3 542	4 930	2 964	6 621	1 058	3 222	7 000
6 252	1 154	4 568	1 500	7 055	3 247	4 614	2 791	6 108	964	2 958	6 776
246	9	185	6	747	233	162	87	373	38	21	87
32	—	24	—	36	8	28	—	18	—	18	59
227	44	93	37	121	54	126	86	122	56	225	78
13 622	460	12 151	496	12 904	722	4 180	407	18 871	524	1 719	8 229
3 348	123	3 301	86	3 129	73	1 296	32	8 596	140	658	1 769
—	—	13	—	3	—	—	—	6	—	—	19
2 829	76	2 878	68	2 642	51	863	10	6 877	109	485	1 370
379	17	357	16	323	5	348	8	1 526	31	153	240
28	28	14	—	21	4	20	7	45	—	15	13
9	2	3	—	—	—	12	7	4	—	—	—
103	—	32	2	135	10	50	—	134	—	5	127
—	—	4	—	—	—	3	—	4	—	—	—
—	—	—	—	5	—	—	—	—	—	—	—
131	—	74	—	330	2	—	—	125	—	—	—
13	—	7	—	6	—	—	—	6	—	—	—
31	—	19	—	191	—	—	—	31	—	—	—
87	—	48	—	127	—	—	—	88	—	—	—
—	—	—	—	6	—	—	—	—	—	—	—
19	—	34	—	47	15	2	—	2	—	—	—
19	—	13	—	23	15	—	—	2	—	—	—
—	—	19	—	20	—	—	—	—	—	—	—
—	—	—	—	4	—	—	—	—	—	—	—
—	—	2	—	—	—	2	—	—	—	—	—
10 124	337	8 742	410	9 398	632	2 882	375	10 148	384	1 061	6 453
41	—	19	—	78	2	23	—	82	—	18	56
57	—	133	—	160	10	5	—	109	—	5	24
13	—	—	—	—	—	—	—	18	—	—	—
153	9	124	20	79	13	51	17	46	8	15	60
4 385	92	3 457	140	2 731	61	183	7	4 347	63	119	965
204	—	106	—	112	—	13	13	127	—	—	43
23	—	23	—	21	6	—	—	42	—	—	—
4 179	175	3 824	170	4 405	225	1 520	100	3 567	105	697	3 866
1 069	61	1 056	80	1 812	315	1 087	238	1 810	208	207	1 477

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
Machine operators, assemblers, and inspectors—Con.
Machine operators and tenders, except precision—Con.
Machine operators, assorted materials—Con.

Folding machine operators
Furnace, kiln, and oven operators, except food
Crushing and grinding machine operators
Slicing and cutting machine operators
Motion picture projectionists
Photographic process machine operators
Miscellaneous machine operators, n.e.c.
Machine operators, not specified

Fabricators, assemblers, and hand working occupations
Welders and cutters
Solderers and brazers
Assemblers
Hand cutting and trimming occupations
Hand molding, casting, and forming occupations
Hand painting, coating and decorating occupations
Hand engraving and printing occupations
Hand grinding and polishing occupations
Miscellaneous hand working occupations

Production inspectors, testers, samplers, and weighers
Production inspectors, checkers, and examiners
Production testers
Production samplers and weighers
Graders and sorters, except agricultural

Transportation and material moving occupations
Motor vehicle operators
Supervisors, motor vehicle operators
Truck drivers, heavy
Truck drivers, light
Driver-sales workers
Bus drivers
Taxicab drivers and chauffeurs
Parking lot attendants
Motor transportation occupations, n.e.c.

Rail transportation occupations
Railroad conductors and yardmasters
Locomotive operating occupations
Railroad brake, signal, and switch operators
Rail vehicle operators, n.e.c.

Water transportation occupations
Ship captains and mates, except fishing boats
Sailors and deckhands
Marine engineers
Bridge, lock, and lighthouse tenders

Material moving equipment operators
Supervisors, material moving equipment operators
Operating engineers
Longshore equipment operators
Host and winch operators
Crane and tower operators
Excavating and loading machine operators
Grader, dozer, and scraper operators
Industrial truck and tractor equipment operators
Miscellaneous material moving equipment operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

Manufacturing, durable goods—Con													
Metal industries—Con													
Iron and steel foundries		Primary aluminum industries		Other primary metal industries		Cutlery, handtools, and other hardware		Fabricated structural metal products		Screw machine products		Metal forgings and stampings	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con													
18 282	1 170	15 216	2 245	16 052	2 671	9 647	5 069	21 278	2 642	3 154	899	8 751	2 516
Operators, fabricators, and laborers—Con													
Handlers, equipment cleaners, helpers, and laborers													
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	18	8		18	—	12	—	67	—	8	—	21	—
Helpers, mechanics and repairers	59	55	5	66	—	20	—	172	10	17	—	71	—
Helpers, construction and extractive occupations	67	152	—	115	14	25	14	401	17	6	—	17	—
Helpers, construction trades	67	152	—	115	14	20	9	394	17	6	—	17	—
Helpers, surveyor	—	—	—	—	—	5	5	7	—	—	—	—	—
Helpers, extractive occupations	—	—	—	—	—	—	—	—	—	—	—	—	—
Construction laborers	193	223	—	201	2	27	5	567	28	2	—	12	8
Production helpers	1 373	1 440	144	1 749	106	400	121	2 753	146	87	12	760	90
Freight, stock, and material handlers	1 698	4 752	558	5 064	657	1 183	447	3 453	197	345	38	1 415	307
Garbage collectors	—	11	—	3	—	3	—	—	—	—	—	5	5
Steveldores	—	6	—	14	—	—	—	—	—	—	—	—	—
Stock handlers and baggers	140	104	12	239	68	252	79	261	17	83	4	219	48
Machine feeders and offloaders	266	3 526	497	3 702	558	478	296	519	70	90	29	301	170
Freight, stock, and material handlers, n.e.c.	1 292	1 105	49	1 106	31	450	72	2 673	110	172	5	890	84
Garage and service station related occupations	28	25	—	23	—	20	6	52	—	—	—	—	—
Vehicle washers and equipment cleaners	499	226	62	335	109	303	123	290	67	134	12	298	27
Hand packers and packagers	558	2 501	903	1 966	935	4 449	3 317	2 615	1 069	946	472	1 554	931
Laborers, except construction	13 789	5 834	573	6 515	848	3 208	1 036	10 908	1 108	1 603	365	4 603	1 153

Employed persons 16 years and over—Con

Operators, fabricators, and laborers—Con
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stevedores
 Stock handlers and baggers
 Machine feeders and offbearers
 Freight, stock, and material handlers, n e c
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[illegible]

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.									
Metal industries—Con					Machinery, except electrical				
Ordnance		Miscellaneous fabricated metal products		Not specified metal industries		Engines and turbines		Farm machinery and equipment	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
279	33	760	94	24	2	142	10	164	19
31	—	39	—	—	—	16	—	25	—
192	33	673	84	22	—	102	4	87	19
—	—	—	—	—	—	11	6	13	—
8	—	6	—	—	—	—	—	7	—
9	—	2	—	—	—	6	—	—	—
5	—	15	2	—	—	—	—	25	—
26	—	25	8	2	2	7	—	7	—
8	—	—	—	—	—	—	—	—	—
Medical scientists	—	—	—	—	—	—	—	—	—
Health diagnosing occupations	—	—	—	—	—	—	—	—	—
Physicians	20	11	7	—	—	27	8	7	7
Dentists	20	4	—	—	—	25	8	7	7
—	—	—	—	—	—	—	—	—	—
Veterinarians	—	7	7	—	—	—	—	—	—
Optometers	—	—	—	—	—	—	—	—	—
Podiatrists	—	—	—	—	—	2	—	—	—
Health diagnosing practitioners, n.e.c.	—	—	—	—	—	—	—	—	—
Health assessment and training occupations	—	—	—	—	—	—	—	—	—
Registered nurses	93	395	380	10	—	114	94	230	223
Pharmacists	93	381	373	10	—	101	94	230	223
Pharmaceuticals	—	—	—	—	—	—	—	—	—
Dietitians	—	7	7	—	—	7	—	—	—
Therapists	—	—	—	—	—	—	—	—	—
Physicians' assistants	—	7	—	—	—	6	—	—	—
Teachers, postsecondary	2	10	6	6	6	9	—	23	—
Teachers, except postsecondary	53	80	22	—	—	120	13	60	14
Teachers, prekindergarten and kindergarten	—	—	—	—	—	—	—	—	—
Teachers, elementary and secondary school	—	—	—	—	—	—	—	—	—
Teachers, special education	—	—	—	—	—	—	—	—	—
Teachers, n.e.c.	53	80	22	—	—	120	13	60	14
Counselors, educational and vocational	6	5	—	—	—	—	—	7	7
Librarians, archivists, and curators	24	34	27	—	—	38	31	—	—
Librarians	24	34	27	—	—	38	31	—	—
Archivists and curators	—	—	—	—	—	—	—	—	—
Social scientists and urban planners	76	389	55	5	—	212	40	200	49
Ecologists	67	382	55	5	—	205	40	200	49
Psychologists	—	—	—	—	—	7	—	—	—
Sociologists	7	—	—	—	—	—	—	—	—
Social scientists, n.e.c.	—	—	—	—	—	—	—	—	—
Urban planners	9	7	—	—	—	12	—	12	—
Social recreation and religious workers	9	24	—	11	6	4	—	3	—
Social workers	—	8	—	5	—	8	—	—	—
Recreation workers	—	8	—	6	6	—	—	—	—
Clergy	—	—	—	—	—	—	—	—	—
Religious workers, n.e.c.	—	—	—	—	—	—	—	—	—
Lawyers and judges	23	155	27	13	—	46	3	49	2
Lawyers	23	155	27	13	—	46	3	49	2
Judges	—	—	—	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	508	1 322	181	108	37	936	117	1 151	168
Authors	15	—	—	—	—	7	—	2	—
Technical writers	81	91	14	—	—	196	22	163	14
Designers	225	678	41	43	—	473	6	552	24
Musicians and composers	—	14	—	—	—	—	—	15	—
Actors and directors	4	—	—	—	—	2	—	4	—
Painters, sculptors, craft-artists, and artist printmakers	67	174	46	7	—	60	25	132	27
Photographers	64	67	6	8	8	13	—	36	—
Dancers	—	—	—	—	—	—	—	—	—
Artists, performers, and related workers, n.e.c.	10	11	5	—	—	26	14	17	6
Editors and reporters	21	60	16	7	—	47	27	100	25
Public relations specialists	—	213	53	43	22	112	23	145	72
Announcers	—	—	—	—	—	—	—	—	—
Athletes	—	—	—	—	—	—	—	—	—
Total		Total		Total		Total		Total	
171	33	242	21	19	—	242	21	242	21
18	9	10	—	—	—	16	—	25	—
112	6	200	21	19	—	102	4	87	19
12	—	25	—	—	—	11	6	13	—
9	—	7	—	—	—	—	—	7	—
—	—	—	—	—	—	6	—	—	—
—	—	—	—	—	—	—	—	25	—
6	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—
24	3	7	—	—	—	27	8	7	7
6	—	—	—	—	—	25	8	—	—
7	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—
9	—	—	—	—	—	—	—	—	—
215	204	436	394	10	—	114	94	230	223
215	204	407	394	10	—	101	94	230	223
—	—	13	—	—	—	7	—	—	—
—	—	6	—	—	—	—	—	—	—
—	—	10	—	—	—	6	—	—	—
52	19	29	—	—	—	9	—	23	—
176	—	251	—	—	—	120	13	60	14
—	—	—	—	—	—	—	—	—	—
8	—	8	—	—	—	—	—	—	—
168	—	243	—	—	—	120	13	60	14
—	—	—	—	—	—	—	—	7	7
28	28	64	49	—	—	38	31	—	—
28	28	56	41	—	—	38	31	—	—
8	—	8	8	—	—	—	—	—	—
277	54	467	69	49	—	212	40	200	49
277	54	467	69	49	—	205	40	200	49
—	—	—	—	—	—	7	—	—	—
—	—	—	—	—	—	—	—	—	—
12	6	7	—	—	—	12	—	12	—
12	6	2	—	—	—	4	—	3	—
—	—	5	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
99	9	264	33	2	—	46	3	49	2
99	9	264	33	2	—	46	3	49	2
1 811	195	2 711	289	168	37	936	117	1 151	168
5	—	20	—	—	—	7	—	2	—
192	40	431	72	14	—	196	22	163	14
290	29	1 446	58	24	—	473	6	552	24
8	—	15	—	—	—	—	—	15	—
22	14	12	—	—	—	2	—	4	—
87	39	222	50	27	—	60	25	132	27
47	5	151	22	36	8	13	—	36	—
—	—	—	—	—	—	—	—	—	—
6	—	—	—	—	—	26	14	17	6
81	21	181	38	25	—	47	27	100	25
73	41	228	47	72	22	112	23	145	72
—	—	5	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

		Metal industries—Con.						Manufacturing, durable goods—Con.					
		Ordnance			Miscellaneous fabricated metal products			Not specified metal industries			Engines and turbines		
		Total	Female		Total	Female		Total	Female		Total	Female	
United States													
Employed persons 16 years and over—Con.													
Technical, sales, and administrative support occupations	15 557	7 984			75 221	38 864		5 562	2 621		24 038	10 722	
Technicians and related support occupations	3 682	449			9 506	1 353		595	75		5 201	625	
Health technologists and technicians	69	5			104	56		—	—		55	6	
Clinical laboratory technologists and technicians	10	—			15	13		—	—		21	—	
Dental hygienists	—	—			—	—		—	—		—	—	
Health record technologists and technicians	—	—			—	—		—	—		—	—	
Radiologic technicians	13	—			—	—		—	—		—	—	
Licensed practical nurses	12	—			57	36		—	—		11	—	
Health technologists and technicians, n.e.c.	34	—			32	7		—	—		23	—	
Engineering and related technologists and technicians	2 392	275			6 214	750		454	31		3 742	310	
Electrical and electronic technicians	778	58			613	36		10	—		457	33	
Industrial engineering technicians	38	12			198	17		—	—		67	13	
Mechanical engineering technicians	46	—			6	4		5	—		223	93	
Engineering technicians, n.e.c.	797	153			1 882	316		221	15		833	93	
Drafting occupations	722	46			3 378	366		218	16		2 147	171	
Surveying and mapping technicians	11	—			19	11		—	—		15	—	
Science technicians	235	34			898	102		41	2		221	48	
Biological technicians	5	—			15	8		17	—		9	—	
Chemical technicians	81	10			172	8		—	—		70	—	
Science technicians, n.e.c.	149	24			711	86		24	2		142	46	
Technicians, except health, engineering, and science	986	135			2 290	445		100	42		1 183	261	
Airplane pilots and navigators	14	—			78	—		—	—		34	—	
Air traffic controllers	—	—			—	—		—	—		—	—	
Broadcast equipment operators	21	—			—	—		—	—		9	—	
Computer programmers	376	81			981	291		56	32		582	187	
Tool programmers, numerical control	33	2			141	18		6	—		58	—	
Legal assistants	5	—			27	16		—	—		30	—	
Technicians, n.e.c.	537	52			1 063	120		38	10		470	39	
Sales occupations	621	140			10 114	1 468		1 456	103		1 740	149	
Supervisors and proprietors, sales occupations	104	6			666	95		56	—		388	15	
Salaried	99	6			601	88		33	—		382	15	
Self-employed	5	—			65	7		23	—		6	—	
Sales representatives, finance and business services	28	18			59	25		—	—		6	—	
Insurance sales occupations	—	—			5	—		—	—		—	—	
Real estate sales occupations	—	—			—	—		—	—		—	—	
Securities and financial services sales occupations	—	—			—	—		—	—		—	—	
Advertising and related sales occupations	26	18			54	25		—	—		6	—	
Sales occupations, other business services	—	—			—	—		—	—		—	—	
Sales representatives, commodities, except retail	410	58			8 889	1 108		1 367	91		1 150	89	
Sales engineers	20	—			705	9		79	—		257	—	
Sales representatives, mining, manufacturing, and wholesale	390	58			8 184	1 099		1 288	91		893	87	
Sales workers, retail and personal services	70	58			496	238		33	12		188	39	
Sales workers, commodities	5	—			122	10		—	7		148	6	
Sales counter clerks	—	—			6	—		—	—		—	—	
Cashiers	52	—			136	101		2	—		25	18	
Street and door-to-door sales workers	13	6			213	114		18	5		15	15	
News vendors	—	—			19	13		—	—		—	—	
Sales related occupations	9	—			4	2		—	—		8	—	
Demonstrators, promoters and models, sales	—	—			4	2		—	—		8	—	
Auctioneers	—	—			—	—		—	—		—	—	
Sales support occupations, n.e.c.	9	—			—	—		—	—		—	—	
Administrative support occupations, including clerical	11 254	7 395			55 601	36 043		3 511	2 443		17 097	9 948	
Supervisors, administrative support occupations	627	184			4 029	1 160		210	33		1 129	270	
Supervisors, general office	199	66			1 195	580		72	16		390	102	
Supervisors, computer equipment operators	65	21			181	66		62	19		62	18	
Supervisors, financial records processing	138	61			925	344		50	17		316	127	
Chief communications operators	2	—			6	—		—	—		—	—	
Supervisors, distribution, scheduling, and adjusting clerks	223	34			1 722	164		88	—		361	22	
Computer equipment operators	339	182			1 715	1 095		98	81		546	239	
Computer operators	313	166			1 599	1 036		98	81		506	212	
Peripheral equipment operators	26	16			116	59		—	—		40	27	
Machinery, except electrical													
Farm machinery and equipment													
Construction and material handling machines													
Metalworking machinery													

Employed Persons by Detailed Industry and Sex: 1980—Con.

Manufacturing, durable goods—Con												
Metal industries—Con				Machinery, except electrical								
Ordnance	Miscellaneous fabricated metal products		Not specified metal industries		Engines and turbines		Form machinery and equipment		Construction and material handling machines		Metalworking machinery	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total
3 024	2 994	13 804	13 626	1 044	1 018	4 502	4 467	5 494	5 449	13 313	13 198	11 647
2 248	2 258	12 140	11 978	947	927	3 740	3 740	4 837	4 823	11 722	11 633	9 984
121	121	87	87	8	8	154	154	120	120	118	118	98
635	615	1 577	1 561	89	83	579	573	537	526	1 473	1 447	1 565
118	108	1 235	1 119	81	57	242	226	320	301	1 043	915	652
—	—	82	82	—	—	26	14	18	18	102	88	35
—	—	—	—	—	—	—	—	—	—	—	—	—
10	—	20	14	7	—	—	—	13	—	64	22	13
77	77	1 014	994	63	57	212	212	268	264	770	753	527
31	31	119	29	11	—	4	—	21	19	107	52	77
668	375	3 228	3 228	109	66	1 059	521	1 188	603	3 089	1 809	2 258
—	—	46	33	—	—	13	11	27	11	32	17	6
8	8	147	95	—	—	17	6	69	48	90	22	117
196	96	1 420	811	46	27	372	144	533	229	1 314	573	1 120
110	88	227	204	11	11	160	141	136	119	417	362	197
—	—	—	—	—	—	12	6	—	—	6	6	25
342	177	1 334	770	52	28	460	202	414	187	1 153	762	770
12	6	54	33	—	—	25	11	9	9	77	67	23
1 088	907	8 382	7 268	653	605	1 680	1 170	3 345	2 755	7 068	5 595	6 522
585	585	5 993	5 248	536	496	984	743	2 416	2 034	4 881	4 070	4 840
263	364	1 365	1 091	55	55	508	294	656	507	1 125	816	980
37	31	636	546	53	49	91	79	176	150	560	462	338
19	14	341	242	4	5	82	39	70	39	400	196	291
14	14	47	44	4	—	15	15	27	25	102	51	73
35	23	212	111	5	5	61	24	44	37	123	70	177
25	19	93	54	5	5	44	13	15	15	67	36	111
10	4	94	57	—	—	17	11	23	6	56	34	14
28	23	339	328	—	—	76	66	84	78	361	340	294
28	23	331	320	—	—	76	66	78	78	339	331	294
—	—	8	8	—	—	—	—	6	—	9	2	—
141	67	409	187	41	36	192	44	289	145	490	210	399
—	—	—	—	—	—	—	—	—	—	—	—	—
114	47	369	175	—	—	183	42	249	130	427	194	322
27	20	40	12	5	—	9	—	40	15	63	16	77
3 178	1 002	15 227	3 964	840	196	4 853	1 143	7 876	2 013	17 305	3 503	10 585
44	12	66	4	7	5	20	9	68	9	173	31	31
996	284	2 514	909	148	24	1 302	300	1 494	478	3 815	872	1 696
555	150	6 824	1 236	360	53	1 950	179	2 395	461	4 409	588	3 946
1 099	382	4 425	1 312	221	91	2 041	523	3 106	753	6 965	1 476	3 703
—	—	—	—	—	—	—	—	—	—	—	—	—
100	54	301	79	59	17	53	13	146	39	201	46	130
—	—	—	—	2	2	6	6	9	7	6	—	16
339	92	1 002	360	29	5	453	104	596	237	1 610	411	972
—	—	—	—	—	—	—	—	—	—	—	—	—
45	28	95	64	14	1	38	11	62	29	126	79	71
122	32	537	274	23	5	338	83	301	118	731	173	393
108	18	483	231	13	5	314	69	290	112	671	127	315
—	—	—	—	—	—	—	—	—	—	—	—	—
14	14	54	43	10	—	24	14	11	6	60	46	63
1 886	1 498	6 484	4 965	407	341	2 419	1 695	3 721	2 824	8 016	5 572	5 272
1 158	995	4 013	3 204	325	286	1 197	866	1 720	1 335	4 111	2 847	3 173
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
9	9	41	13	—	—	2	—	2	2	—	—	17
403	383	1 420	1 354	44	44	600	545	1 060	1 024	2 107	2 003	1 287
109	57	254	145	11	5	135	104	207	172	455	278	214
6	6	2	2	—	—	—	—	—	—	—	—	—
201	48	754	249	27	6	487	180	732	291	1 345	444	581

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con
 Administrative support occupations, including clerical—Con

Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secretaries, stenographers, and typists—Con
 Secret

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.														
Metal industries—Con.				Machinery, except electrical										
Ordnance	Miscellaneous fabricated metal products		Not specified metal industries		Engines and turbines		Farm machinery and equipment		Construction and material handling machines		Metalworking machinery			
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
Service occupations	3 208	490	8 845	1 021	684	93	3 022	568	4 433	937	7 243	1 229	6 311	797
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	1 550	99	1 346	72	82	6	703	62	934	76	1 483	81	866	12
Supervisors, protective service occupations	104	—	45	—	7	—	48	—	14	—	85	—	24	6
Supervisors, firefighting and fire prevention occupations	3	—	5	—	—	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	101	—	—	—	7	—	41	—	14	—	85	—	24	6
Supervisors, guards	237	12	11	—	—	—	17	—	20	—	82	8	2	—
Firefighting and fire prevention occupations	64	6	11	—	—	—	10	—	12	—	70	8	2	—
Fire inspection and fire prevention occupations	173	6	—	—	—	—	7	—	8	—	12	—	—	—
Firefighting occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	1 209	87	1 290	72	75	6	638	62	900	76	1 316	73	840	6
Guards	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Crossing guards	1 201	87	1 276	72	75	6	625	62	900	76	1 316	73	837	6
Guards and police, except public service	8	—	14	—	—	—	6	—	—	—	—	—	—	—
Protective service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Service occupations, except protective and household	1 658	391	7 499	949	602	87	2 319	506	3 499	861	5 760	1 148	5 445	785
Food preparation and service occupations	123	94	190	100	10	—	111	93	131	119	318	222	245	165
Supervisors, food preparation and service occupations	—	—	4	—	—	—	9	3	—	—	10	5	6	—
Bartenders	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Waiters and waitresses	9	19	23	10	—	—	19	12	16	11	27	18	6	6
Cooks, except short order	21	19	64	27	—	—	30	30	56	56	110	50	81	45
Short-order cooks	—	—	4	—	4	—	5	—	6	6	—	—	—	—
Food counter, fountain and related occupations	3	3	13	8	2	—	8	—	—	—	7	—	—	—
Kitchen workers, food preparation	5	—	—	—	—	—	8	8	1	1	11	11	—	—
Kitchen workers, waitresses' assistants	27	10	27	23	—	—	6	6	52	45	62	56	29	29
Waiters and waitresses	58	48	55	28	8	—	34	34	—	—	91	82	113	85
Miscellaneous food preparation occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Health service occupations	36	32	21	21	8	8	51	39	19	12	104	44	24	19
Dental assistants	—	—	—	—	—	—	5	5	7	6	6	6	—	—
Nursing aides, except nursing	16	12	—	—	—	—	—	—	—	—	12	—	—	—
Nursing aides, orderlies, and attendants	20	20	—	—	—	—	46	34	6	6	86	44	24	19
Cleaning and building service occupations, except household	1 471	241	7 237	821	578	8	2 131	365	3 254	702	5 202	810	5 102	568
Superior cleaning and building service workers	19	19	124	8	—	—	44	—	35	5	52	6	101	11
Maids and housemen	66	9	304	62	31	2	132	33	198	51	218	95	292	37
Janitors and cleaners	1 379	232	6 799	751	547	77	1 955	332	2 979	646	4 842	697	4 704	520
Elevator operators	—	—	10	—	—	—	—	—	42	—	83	12	5	—
Pest control occupations	7	—	—	—	—	—	—	—	—	—	7	—	—	—
Personal service occupations	28	24	51	7	6	—	26	9	95	28	136	72	74	33
Supervisors, personal service occupations	—	—	—	—	—	—	—	—	—	—	26	—	—	—
Barbers	—	—	—	—	—	—	—	—	—	—	—	—	6	5
Hairdressers and cosmetologists	2	—	—	—	—	—	—	—	5	5	—	—	9	—
Attendants, amusement and recreation facilities	—	—	6	—	6	—	9	—	50	8	35	12	—	—
Guides	—	—	25	—	—	—	6	—	5	—	7	—	—	—
Ushers	9	7	—	—	—	—	—	—	—	—	—	—	—	—
Public transportation attendants	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	5	—	—	—	—	—	—	—	—	—	—	—
Wellness service aides	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Child care workers, except private household	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Personal service occupations, n.e.c.	17	17	15	7	—	—	11	9	23	15	66	60	54	28
Farming, forestry, and fishing occupations	68	12	165	16	44	—	69	—	207	38	106	2	222	61
Farm operators and managers	—	—	—	—	—	—	—	—	8	—	—	—	—	—
Farm occupations, except managerial	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Related agricultural occupations	47	12	89	8	18	—	39	—	188	35	85	2	92	—
Supervisors, related agricultural occupations	2	—	—	—	—	—	—	—	7	—	—	—	—	—
Groundskeepers and gardeners	45	10	74	8	18	—	32	—	171	25	75	2	86	6
Animal caretakers, except farm	—	—	15	—	—	—	7	—	10	10	—	—	—	—
Animal caretakers, except farm	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	10	—	—	—
Inspectors, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.															
Metal industries—Con				Machinery, except electrical											
Ordnance		Miscellaneous fabricated metal products		Not specified metal industries		Engines and turbines		Form machinery and equipment		Construction and material handling machines		Metalworking machinery			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
United States															
Employed persons 16 years and over—Con.															
Forming, forestry, and fishing occupations.....															
Forestry and logging occupations.....															
Supervisors, forestry and logging workers.....															
Timber cutting and logging occupations.....															
Fishery hunting and trapping occupations.....															
Captains and other officers, fishing vessels.....															
Fishers.....															
Hunters and trappers.....															
Precision production, craft, and repair occupations.....															
Mechanics and repairers.....															
Supervisors, mechanics and repairers.....															
Mechanics and repairers, except supervisors.....															
Vehicle and mobile equipment mechanics and repairers.....															
Automobile mechanics.....															
Bus, truck, and stationary engine mechanics.....															
Aircraft engine mechanics.....															
Small engine repairers.....															
Automobile body and related repairers.....															
Aircraft mechanics, except engine.....															
Heavy equipment mechanics.....															
Form equipment mechanics.....															
Industrial machinery repairers.....															
Machinery maintenance occupations.....															
Electrical and electronic equipment repairers.....															
Electronic repairers, communications and industrial equipment.....															
Data processing equipment repairers.....															
Household appliance and power tool repairers.....															
Telephone line installers and repairers.....															
Telephone installers and repairers.....															
Miscellaneous electrical and electronic equipment repairers.....															
Heating, air conditioning, and refrigeration mechanics.....															
Miscellaneous mechanics and repairers.....															
Camera, watch, and musical instrument repairers.....															
Locksmiths and safe repairers.....															
Office machine repairers.....															
Mechanical controls and valve repairers.....															
Elevator installers and repairers.....															
Millwrights.....															
Specified mechanics and repairers, n.e.c.....															
Not specified mechanics and repairers.....															
Construction trades.....															
Supervisors, construction occupations.....															
Supervisors, brickmasons, stonemasons, and tile setters.....															
Supervisors, carpenters and related workers.....															
Supervisors, electricians and power transmission installers.....															
Supervisors, painters, paperhangers, and plasterers.....															
Supervisors, plumbers, pipefitters, and steamfitters.....															
Supervisors, n.e.c.....															
Construction trades, except supervisors.....															
Brickmasons and stonemasons.....															
Tile setters, hard and soft.....															
Carpet installers.....															
Carpenters.....															
Drywall installers.....															
Electricians.....															
Electrical power installers and repairers.....															
Painters, construction and maintenance.....															
Paperhangers.....															

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.											
Metal industries—Con.						Machinery, except electrical					
Ordnance		Miscellaneous fabricated metal products		Not specified metal industries		Engines and turbines		Farm machinery and equipment		Construction and material handling machines	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.											
Precision production, craft, and repair occupations—Con.											
Construction trades—Con.											
Plasterers											
425	4	7	3	74	—	702	7	338	2	160	14
9	—	2 131	70	—	—	—	—	5	—	11	—
22	—	73	—	—	—	—	—	18	—	21	—
6	—	10	—	—	—	8	8	—	—	49	19
—	—	72	—	—	—	—	—	—	—	5	—
10	—	—	—	—	—	—	—	—	—	6	—
6	—	4	—	28	—	8	—	16	—	22	—
—	—	154	—	69	—	41	—	85	—	399	—
6	—	34	32	89	19	10	—	38	—	104	9
11	—	23	14	—	—	13	—	13	—	137	6
53	1	89	—	5	—	15	—	20	—	325	23
—	—	120	14	—	—	—	—	—	—	76	7
—	—	—	—	—	—	5	—	—	—	31	—
43	1	69	—	—	—	10	—	20	—	108	14
3	—	28	—	5	—	—	—	—	—	60	2
7	—	23	—	—	—	—	—	—	—	30	—
Precision production occupations											
11 759	1 142	55 830	3 915	4 256	149	17 966	1 042	20 927	1 010	52 319	1 754
5 148	483	29 404	1 781	1 844	59	7 020	324	10 511	324	22 771	714
5 191	262	22 992	1 199	2 221	77	9 000	492	8 977	327	26 698	741
1 117	16	5 164	92	342	9	1 588	17	2 289	12	2 736	54
34	8	165	69	10	—	830	115	111	9	340	31
3 446	188	14 234	670	1 275	43	5 498	324	5 427	262	20 609	540
37	—	220	5	12	—	16	—	10	—	110	—
172	19	514	27	13	—	426	11	384	31	1 167	67
87	—	328	7	18	—	145	—	146	6	299	17
15	—	65	—	11	—	69	—	60	5	353	2
8	—	100	34	—	—	32	11	8	—	64	10
33	10	867	242	27	—	9	—	—	—	12	—
231	7	1 219	37	507	25	364	—	506	2	953	16
11	6	66	16	6	—	23	14	31	2	55	2
Precision woodworking occupations											
177	33	102	20	11	—	47	—	35	2	79	—
—	—	27	—	—	—	25	—	21	—	47	—
—	—	14	12	11	—	—	—	—	—	7	—
19	—	29	—	—	—	2	—	2	—	6	—
158	33	32	8	—	—	20	—	12	2	19	—
34	34	130	93	8	—	15	—	13	4	45	8
15	15	62	51	—	—	—	—	1	—	17	8
—	—	—	—	—	—	—	—	—	—	—	—
17	17	57	31	—	—	—	—	8	—	5	—
2	2	6	6	—	—	9	—	3	3	23	—
—	—	5	5	—	—	6	—	—	—	—	—
Precision workers, apparel and fabric workers											
428	239	1 594	430	108	9	514	129	679	55	1 098	181
—	—	810	88	59	9	98	—	236	12	289	8
2	—	102	17	13	—	46	—	38	—	43	—
14	14	19	9	—	—	7	5	—	—	10	—
6	6	10	7	—	—	—	—	—	—	—	—
263	173	301	231	8	—	116	85	11	—	318	144
143	46	343	66	28	—	242	39	394	43	438	29
—	—	78	3	16	—	24	—	—	—	49	3
—	—	35	1	7	—	18	—	33	—	38	3
—	—	2	—	9	—	6	—	—	—	28	—
434	79	773	332	7	—	625	53	315	8	743	66
425	79	773	332	7	2	617	53	310	8	743	66
9	—	—	—	—	—	8	—	5	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see definitions of terms, see appendix A.]

United States

Manufacturing, durable goods—Con.

Machinery, except electrical

Metal industries—Con

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Plant and system operators—Con

Water and sewage treatment plant operators

Power plant operators

Stationary engineers

Miscellaneous plant and system operators

Operators, fabricators, and laborers

Machine operators, assemblers, and inspectors

Machine operators and tenders, except precision

Metalworking and plastic working machine operators

Lathe and turning machine set-up operators

Lathe and turning machine operators

Milling and planing machine operators

Punching and stamping press machine operators

Rolling machine operators

Drilling and boring machine operators

Grinding, abrading, buffing, and polishing machine operators

Forging machine operators

Numerical control machine operators

Miscellaneous metal, plastic, stone, and glass working machine operators

Fabricating machine operators, n.e.c.

Metal and plastic processing machine operators

Molding and casting machine operators

Metal planing machine operators

Heat treating equipment operators

Miscellaneous metal and plastic processing machine operators

Wood machine operators

Wood lathe, routing, and planing machine operators

Sawing machine operators

Shaping and joining machine operators

Nailing and tacking machine operators

Miscellaneous woodworking machine operators

Printing machine operators

Photoengravers and lithographers

Typesetters and compositors

Miscellaneous printing machine operators

Textile, apparel, and furnishings machine operators

Winding and twisting machine operators

Knitting, looping, taping, and weaving machine operators

Textile cutting machine operators

Textile sewing machine operators

Shoe machine operators

Pressing machine operators

Laundering and dry cleaning machine operators

Miscellaneous textile machine operators

Machine operators, assorted materials

Cementing and gluing machine operators

Packaging and filling machine operators

Extruding and forming machine operators

Mixing and blending machine operators

Separating, filtering, and clarifying machine operators

Compressing and compacting machine operators

Painting and paint spraying machine operators

Roasting and baking machine operators, food

Washing, cleaning, and pickling machine operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

United States

United States	Ordnance		Miscellaneous fabricated metal products		Not specified metal industries		Engines and turbines		Farm machinery and equipment		Construction and material handling machines		Metalworking machinery	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con														
Operators, fabricators, and laborers—Con														
Machine operators, assemblers, and inspectors—Con														
Machine operators and tenders, except precision—Con														
Machine operators, assorted materials—Con														
Folding machine operators	36	19	228	54	—	—	51	—	20	7	51	—	27	16
Furnace, kiln, and oven operators, except food	457	—	2 599	251	460	20	481	33	598	42	857	39	1 089	89
Crushing and grinding machine operators	131	—	233	25	42	19	284	20	355	22	554	46	363	26
Slicing and cutting machine operators	210	29	3 419	505	550	26	263	33	1 305	92	1 931	71	1 208	185
Motion picture projectionists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Photographic process machine operators	74	19	219	97	—	—	60	35	29	22	326	168	313	162
Miscellaneous machine operators, n.e.c.	2 125	762	13 324	3 401	940	173	3 685	818	3 910	579	7 421	570	9 603	2 261
Machine operators, not specified	5 694	1 892	31 928	8 850	2 779	455	6 958	1 393	7 655	1 127	13 266	1 004	21 336	4 892
Fabricators, assemblers, and hand working occupations														
Welders and cutters	8 378	4 022	46 404	15 658	4 306	585	17 379	4 810	37 974	6 293	59 938	3 744	24 728	8 144
Solderers and brazers	1 017	69	15 936	1 970	2 955	121	3 119	175	15 928	665	33 735	667	6 603	446
Assemblers	144	142	394	187	47	22	63	9	116	70	71	34	247	159
Hand cutting and trimming occupations	7 047	3 792	29 073	13 191	1 264	417	14 023	4 581	21 640	5 516	25 826	2 953	17 641	7 479
Hand molding, casting, and forming occupations	—	—	57	8	—	—	14	2	33	9	54	17	35	15
Hand cutting, casting, and forming occupations	10	—	303	20	2	—	—	—	16	—	10	—	52	2
Hand painting, coating and decorating occupations	37	12	302	74	30	17	71	25	178	19	186	44	68	17
Hand engraving and printing occupations	—	—	12	2	—	—	16	—	26	4	13	—	—	—
Hand engraving and polishing occupations	104	5	71	5	—	—	22	—	—	—	—	—	65	13
Hand grinding and polishing occupations	19	2	256	201	8	8	51	18	37	10	43	9	17	13
Miscellaneous hand working occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Production inspectors, testers, samplers, and weighers	5 331	2 440	14 955	6 200	515	140	7 603	1 647	5 801	755	9 884	813	7 755	2 488
Production inspectors, checkers, and examiners	4 821	2 279	13 159	5 492	424	127	5 991	1 483	4 980	656	8 519	674	6 828	2 127
Production testers	419	124	1 259	434	2	—	1 552	156	696	82	1 294	108	789	269
Production samplers and weighers	5	5	94	12	2	—	11	—	13	—	12	—	—	—
Graders and sorters, except agricultural	86	32	443	262	89	13	49	8	112	17	59	31	138	92
Transportation and material moving occupations														
Motor vehicle operators	2 555	431	18 539	1 041	1 443	80	4 526	242	10 326	691	16 251	933	6 082	31

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

Employed persons 16 years and over—Con.

Occupation	2 642	770	26 612	8 088	1 766	281	3 964	734	8 594	1 417	12 329	1 493	8 785	2 334
Operators, fabricators, and laborers—Con.														
Handlars, equipment cleaners, helpers, and laborers														
Supervisors, handlers, equipment cleaners, and laborers,														
n.e.c.	6	—	32	6	—	—	9	—	23	—	—	—	43	—
Helpers, mechanics and repairers	10	5	39	—	—	—	22	—	57	—	225	7	72	—
Helpers, construction and extractive occupations	25	—	100	—	19	8	19	—	28	—	88	—	22	—
Helpers, construction trades	25	—	100	—	19	8	19	—	28	—	88	—	22	—
Helpers, surveyor	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Helpers, extractive occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Construction laborers	56	4	203	2	10	—	57	—	143	2	253	13	83	11
Production helpers	157	30	1 514	195	84	3	203	14	302	18	1 409	188	784	32
Freight, stock, and material handlers	400	97	4 731	1 471	203	12	537	85	1 371	168	1 782	79	866	191
Garbage collectors	—	—	8	2	—	—	—	—	14	2	5	—	12	—
Stevedores	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Stock handlers and bidders	95	31	595	163	36	9	213	28	328	80	355	34	307	55
Machine feeders and drillers	67	17	2 126	1 106	20	3	84	21	121	36	154	13	210	77
Freight, stock, and material handlers, n.e.c.	238	49	2 002	204	147	—	240	36	1 208	50	1 268	32	337	59
Garage and service station related occupations	15	10	32	8	—	—	9	—	25	—	42	15	7	—
Vehicle washers and equipment cleaners	97	7	696	163	67	5	366	77	285	45	503	113	718	74
Hand packers and packagers	610	351	4 978	2 909	255	144	1 297	297	1 245	449	1 474	337	2 286	1 330
Laborers, except construction	1 266	286	14 267	3 330	1 128	109	1 819	261	4 815	735	6 555	741	3 904	696

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.													
Machinery, except electrical—Con.				Electrical machinery, equipment, and supplies									
Office and accounting machines		Electronic computing equipment		Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
100 281	35 273	428 916	147 436	1 120 004	219 592	38 577	6 030	185 118	67 950	591 251	250 323	1 256 545	544 944
23 985	3 583	147 705	22 609	149 407	16 923	5 756	590	19 115	2 399	133 085	18 629	222 919	32 571
12 740	2 483	66 683	12 948	99 285	13 503	3 916	484	11 694	1 550	58 936	11 291	114 679	21 782
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
435	108	2 929	425	3 609	611	123	41	606	53	2 477	367	4 821	756
491	118	2 418	664	2 700	555	56	14	332	57	1 958	359	4 108	1 129
—	—	—	—	—	—	—	—	—	—	—	—	—	—
211	85	1 015	237	1 359	106	43	—	164	179	1 253	140	2 009	248
1 621	167	6 587	622	11 000	599	434	28	1 626	179	5 154	492	12 340	1 328
12	4	53	9	46	—	8	—	—	—	40	7	80	5
—	—	—	—	—	—	—	—	—	—	—	—	—	—
20	—	78	7	30	6	—	—	2	—	57	20	122	23
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
931	—	36 579	4 898	59 461	5 395	5	—	5 877	486	30 438	3 749	61 581	7 119
6 354	912	36 450	4 877	54 346	4 986	2 374	198	5 760	479	30 048	3 711	60 339	6 945
74	19	129	21	5 115	409	249	15	117	7	390	38	1 242	174
—	—	—	—	—	—	—	—	—	—	—	—	—	—
3 396	1 070	17 024	6 086	21 059	6 223	624	188	3 087	775	17 542	5 975	29 604	11 174
1 512	523	8 442	3 187	9 107	3 216	251	80	1 416	420	8 060	2 958	12 882	4 828
—	—	—	—	—	—	—	—	—	—	—	—	—	—
144	23	648	182	883	278	25	—	138	31	878	249	1 157	372
123	21	882	165	467	74	10	—	51	7	592	88	810	187
709	261	3 021	1 281	2 927	803	85	31	559	154	3 397	1 267	5 943	2 798
—	—	—	—	—	—	—	—	—	—	—	—	—	—
203	—	3 597	1 194	7 459	1 832	253	77	913	163	4 157	1 312	8 199	2 829
10	—	50	7	28	—	—	—	—	—	136	31	44	—
—	—	—	—	—	—	—	—	—	—	15	—	55	8
12	—	63	17	111	13	—	—	10	—	99	30	301	89
120	39	311	53	64	7	—	—	—	—	208	40	194	53
11 245	1 100	81 022	9 661	50 122	3 420	1 840	106	7 421	849	74 149	7 338	108 240	10 789
7 182	230	41 126	1 906	39 582	1 277	1 428	42	5 392	235	54 341	2 397	84 155	4 632
—	—	—	—	—	—	—	—	—	—	—	—	—	—
7 182	230	40 962	1 903	39 550	1 277	1 428	42	5 386	235	54 315	2 392	84 093	4 632
9	—	157	10	69	—	—	—	27	—	639	5	525	22
—	—	87	6	622	36	—	—	25	—	198	5	563	26
26	—	—	—	19	9	—	—	—	—	13	—	—	1
—	—	5	—	36	—	—	—	6	—	6	—	17	—
57	—	207	16	335	6	15	—	59	—	296	25	845	79
—	—	14	—	70	—	—	—	—	—	56	—	126	—
34	—	182	21	418	14	5	—	41	—	288	18	318	27
—	—	35	—	123	—	—	—	2	—	14	—	6	—
2 430	71	14 879	463	2 387	41	98	—	2 176	38	36 035	1 184	52 441	1 933
1 296	84	8 250	880	9 197	746	193	21	1 942	161	8 161	1 808	15 833	1 803
2 588	50	13 042	342	22 368	358	1 041	21	4 099	128	4 099	128	5 637	123
—	—	—	—	—	—	—	—	6	—	—	—	19	6
—	—	—	—	—	—	—	—	—	—	—	—	—	—
542	25	4 104	165	3 883	67	76	—	441	17	4 510	219	7 742	612
—	—	8	—	6	—	—	—	6	—	9	—	11	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
1 614	232	24 251	3 768	2 139	312	109	25	489	103	6 490	1 403	6 492	1 321
1 118	130	22 129	3 296	1 559	181	67	—	287	49	3 950	708	4 256	774
462	96	1 793	418	880	111	42	18	147	31	2 325	543	1 892	358
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
34	6	194	45	94	20	—	—	53	23	331	135	279	174
—	—	129	9	—	—	—	—	2	—	72	17	49	7

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A)

United States

Manufacturing, durable goods—Con.

Manufacturing, durable goods—Con.																	
Machinery, except electrical—Con						Electrical machinery, equipment, and supplies											
Office and accounting machines			Electronic computing equipment			Machinery, except electrical, n.e.c.			Not specified machinery								
			Total		Female	Total		Female	Total		Female						
Total			Total		Female	Total		Female	Total		Female						
Employed persons 16 years and over—Con.																	
Managerial and professional specialty occupations—Con.																	
Professional specialty occupations—Con.																	
Natural scientists	196	39	818	155	867	191	26	21	945	154	2 439						
Physicists and astronomers	19	7	203	14	57	—	—	—	373	6	664						
Chemists, except biochemists	158	26	469	77	685	154	7	19	383	64	1 427						
Atmospheric and space scientists	—	—	51	18	42	13	—	—	52	6	13						
Geologists and geodesists	—	—	6	6	8	—	—	—	28	—	7						
Physical scientists, n.e.c.	—	—	7	6	6	—	—	—	11	—	49						
Agricultural and food scientists	—	—	—	—	24	10	13	—	15	8	11						
Biological and life scientists	6	6	66	40	33	14	6	2	63	56	156						
Forestry and conservation scientists	—	—	—	—	6	—	—	—	—	—	—						
Medical scientists	13	—	16	—	6	—	—	—	20	14	25						
Health diagnosing occupations	5	—	30	5	29	—	16	7	64	14	74						
Physicians	5	—	30	5	23	—	16	7	53	14	74						
Dentists	—	—	—	—	—	—	—	—	5	—	—						
Veterinarians	—	—	—	—	—	—	—	—	6	—	—						
Optometrists	—	—	—	—	6	—	—	—	—	—	—						
Podiatrists	—	—	—	—	—	—	—	—	—	—	—						
Health diagnosing practitioners, n.e.c.	—	—	—	—	—	—	—	—	—	—	—						
Health assessment and treating occupations	74	74	377	364	629	569	—	146	720	684	1 051						
Registered nurses	74	74	362	356	603	561	—	138	690	664	971						
Pharmacists	—	—	5	—	11	6	—	8	—	—	9						
Dietitians	—	—	—	—	7	2	—	—	23	13	6						
Therapists	—	—	10	8	7	2	—	—	7	7	54						
Physicians' assistants	—	—	—	—	8	—	—	—	—	—	11						
Teachers, postsecondary	13	—	49	6	62	19	—	13	65	14	62						
Teachers, except postsecondary	272	72	1 987	304	392	85	26	125	897	265	1 104						
Teachers, prekindergarten and kindergarten	—	—	—	—	4	—	—	—	5	—	15						
Teachers, elementary and secondary school	—	—	—	—	—	—	—	—	—	—	—						
Teachers, special education	—	—	4	—	17	6	—	—	—	—	6						
Teachers, n.e.c.	272	72	1 983	304	371	79	26	125	892	265	1 083						
Counselors, educational and vocational	19	—	182	44	24	—	—	5	37	12	40						
Librarians, archivists, and curators	39	18	424	331	70	61	—	—	174	139	214						
Librarians	26	18	424	331	63	61	—	—	159	133	214						
Archivists and curators	13	—	—	—	7	—	—	—	15	6	—						
Social scientists and urban planners	444	154	3 161	721	1 189	222	14	58	1 590	373	2 655						
Economists	438	154	3 060	704	1 182	220	14	58	1 587	366	2 606						
Psychologists	—	—	82	17	—	—	—	—	45	7	42						
Sociologists	—	—	6	—	—	—	—	—	—	—	—						
Social scientists, n.e.c.	—	—	13	—	2	2	—	—	—	—	7						
Urban planners	—	—	—	—	5	—	—	—	—	—	—						
Social, recreation, and religious workers	6	—	43	30	29	18	7	—	21	3	48						
Social workers	14	—	37	30	24	18	—	—	15	3	18						
Recreation workers	—	—	—	—	5	—	—	—	8	—	19						
Clergy	—	—	6	—	—	—	7	—	—	—	11						
Religious workers, n.e.c.	—	—	—	—	—	—	—	—	6	—	—						
Lower and judges	137	26	560	78	324	17	7	—	561	38	690						
Lower	137	26	560	78	324	17	—	—	561	38	690						
Judges	—	—	—	—	—	—	—	—	—	—	—						
Writers, artists, entertainers, and athletes	1	255	8 014	1 949	4 786	649	207	149	8 044	1 842	9 216						
Authors	—	—	67	27	34	12	—	12	81	41	59						
Technical writers	88	373	2 613	723	434	70	14	5	2 359	515	3 333						
Designers	365	43	3 319	355	3 099	157	182	32	2 628	239	5 192						
Musicians and composers	—	—	24	17	6	—	—	—	220	17	32						
Actors and directors	—	—	61	34	21	5	—	—	187	18	45						
Painters, sculptors, craft-artists, and artist printmakers	87	31	364	162	480	141	4	2	726	245	314						
Photographers	20	—	183	36	93	23	—	21	328	34	389						
Dancers	—	—	—	—	3	—	—	—	7	—	—						
Artists, performers, and related workers, n.e.c.	—	—	28	22	9	3	—	—	28	7	96						
Editors and reporters	75	39	500	294	224	126	7	7	617	398	461						
Public relations specialists	86	—	755	279	373	112	—	56	826	321	618						
Announcers	—	—	—	—	8	—	—	—	25	—	6						
Athletes	—	—	12	—	10	—	—	—	9	—	—						

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.													
Machinery, except electrical—Con.				Electrical machinery, equipment, and supplies									
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
				Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	

Employed Persons by Detailed Industry and Sex: 1980—Con.

Manufacturing, durable goods—Con													
Machinery, except electrical—Con.						Electrical machinery, equipment, and supplies							
Electronic computing equipment			Machinery, except electrical, n.e.c			Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies, n.e.c.	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
5 232	5 117	21 934	21 751	38 287	37 941	1 258	1 250	4 825	4 773	24 961	24 777	43 295	42 913
4 591	4 505	20 079	19 926	33 902	33 624	1 156	1 148	4 215	4 171	21 505	21 345	38 118	37 814
33	27	65	63	256	250	6	6	47	47	201	201	297	284
608	585	1 790	1 762	4 129	4 067	96	96	563	555	3 255	3 239	4 880	4 815
329	296	1 251	1 188	2 945	2 732	92	84	369	337	1 488	1 281	3 123	2 913
57	45	69	61	236	211	20	20	86	74	170	148	324	288
—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	—	41	24	—	11	—	—	—	—	124	61	89	49
232	221	1 027	1 011	2 386	2 315	72	64	245	231	925	875	2 474	2 429
38	30	114	92	239	195	—	—	38	32	259	157	236	147
1 113	767	3 495	2 377	7 011	4 107	156	84	1 210	742	6 164	4 422	10 173	7 314
9	—	30	20	89	57	5	—	23	12	27	21	85	65
16	11	41	35	321	181	—	—	57	57	165	131	384	298
474	293	1 237	668	3 197	1 754	90	36	529	280	2 511	1 679	3 783	2 501
127	122	402	367	503	421	8	8	74	52	431	412	975	846
18	18	89	71	20	20	—	—	—	—	99	84	69	67
414	282	1 515	1 085	2 657	1 512	48	35	469	300	2 391	1 806	4 683	3 351
55	41	181	131	224	162	5	5	58	41	340	289	244	186
1 787	1 472	5 361	4 382	19 939	17 261	620	534	2 237	1 855	8 347	7 081	18 668	16 259
1 219	1 037	4 366	3 564	15 034	13 558	580	502	1 432	1 237	5 969	5 151	13 379	11 879
254	168	423	369	2 620	1 924	21	16	567	429	1 125	1 045	2 824	2 418
242	206	373	349	1 294	1 169	10	10	131	128	789	609	1 333	1 261
35	29	144	57	668	448	9	6	63	32	331	167	863	479
37	32	55	43	323	162	—	—	44	29	133	109	269	222
213	150	220	142	430	238	11	3	93	76	667	524	506	354
61	40	123	97	197	92	3	—	21	12	413	323	231	154
16	16	5	—	40	21	8	3	6	6	40	40	59	27
136	94	92	45	193	125	—	—	62	58	214	161	216	173
133	133	421	376	967	904	13	—	120	113	1 522	1 333	1 203	1 089
125	125	383	352	940	888	6	—	113	113	1 451	1 301	1 172	1 079
8	8	18	18	20	16	7	—	7	—	40	13	25	10
—	—	20	6	7	—	—	—	—	—	31	19	6	—
229	116	665	381	1 005	599	32	—	279	152	1 026	538	1 490	699
Mail and message distributing occupations													
Postal carriers, except mail carriers													
Mail carriers, postal service													
Mail clerks, except postal service													
Messengers													
Material recording, scheduling, and distributing clerks													
Dispatchers													
Production coordinators													
Traffic, shipping, and receiving clerks													
Stock and inventory clerks													
Meter readers													
Weighers, measurers, and checkers													
Samplers													
Expeditors													
Material recording, scheduling, and distributing clerks, n.e.c.													
Adjusters and investigators													
Insurance adjusters, examiners, and investigators													
Investigators and adjusters, except insurance													
Eligibility clerks, social welfare													
Bill and account collectors													
Miscellaneous administrative support occupations													
General office clerks													
Bank tellers													
Proofreaders													
Data-entry keyers													
Statistical clerks													
Teachers' aides													
Administrative support occupations, n.e.c.													

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.													
Machinery, except electrical—Con.				Electrical machinery, equipment, and supplies									
Office and accounting machines		Electronic computing equipment		Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
1 656	378	5 899	1 371	18 965	2 639	608	85	3 952	598	9 727	2 055	21 829	4 134
Private household occupations													
Protective service occupations	33	1 584	201	2 868	178	36	14	925	52	3 043	391	4 683	445
Supervisors, protective service occupations	20	99		130		25		25		192	22	210	22
Supervisors, firefighting and fire prevention occupations										6		2	
Supervisors, police and detectives													
Supervisors, police and detectives		99		120				25		186	22	208	22
Supervisors, guards		12		63				24	5	19		23	15
Firefighting and fire prevention occupations		12		47				18	5	13		35	
Firefighting occupations				16				6				38	15
Police and detectives													
Police and detectives, public service													
Sheriffs, bailiffs, and other law enforcement officers													
Correctional institution officers													
Guards	33	1 473	201	2 675	178	36	14	876	47	2 832	369	4 400	408
Crossing guards				5						9		2	
Guards and police, except public service	33	1 468	196	2 670	178	36	14	876	47	2 818	369	4 392	406
Protective service occupations, n.e.c.		5								5		6	
Service occupations, except protective and household													
Food preparation and service occupations	1 217	4 315	1 170	16 097	2 461	572	71	3 027	546	6 684	1 664	17 146	3 689
Supervisors, food preparation and service occupations	304	775	607	780	552	15	10	211	139	695	470	1 075	734
Barbers	4	70	18	50	39			6		73	51	67	29
Waiters and waitresses	18	69	51	54	54			28	28	107	76	138	103
Cooks, except short order	121	164	108	225	165	15	10	32	26	191	128	266	158
Cooks, except short order										10			
Short-order cooks				8		5				5			
Food counter, fountain and related occupations		21		48	19			17	10	23	6	30	14
Kitchen workers, food preparation	29	57	21	52	53			37	37	52	32	59	36
Waiters and waitresses, assistants	28	139	124	50	50			17	17	71	40	80	80
Miscellaneous food preparation occupations	104	255	233	284	172			74	21	163	112	426	314
Health service occupations	5	23	23	175	122	4	4	15	11	66	59	160	124
Dental assistants		6	6	3	3					14	14	5	
Health aides, except nursing										7		25	12
Nursing aides, orderlies, and attendants		17	17	151	102	4	4	15	11	45	45	130	107
Cleaning and building service occupations, except household	881	3 425	472	14 901	1 695	538	50	2 759	368	5 746	1 084	15 589	2 636
Supervisors, cleaning and building service workers	17	104		181	33			14		89	9	317	40
Molds and housemen	42	227	51	724	204	32		121	16	407	178	870	294
Janitors and cleaners	814	3 094	421	13 968	1 444	506	50	2 577	352	5 232	897	14 342	2 991
Elevator operators	8			12	14			40		18		60	11
Pest control occupations													
Personal service occupations	27	92	68	241	92	15	7	42	28	177	51	322	195
Supervisors, personal service occupations	5	11	7	18		7						37	11
Barbers				2									
Handdressers and cosmetologists						5	5					4	6
Attendants, amusement and recreation facilities	7	45	38	26	5	7		7	7	41	11	62	55
Guides				34	8					13			
Ushers		18	5	15		8						30	10
Public transportation attendants													
Baggage porters and bellhops													
Welfare service aides													
Child care workers, except private household				4		2	2	7	7	5		42	3
Personal service occupations, n.e.c.	15	18	18	135	79			21	14	118	40	141	109
Farming, forestry, and fishing occupations	16	78	40	419	45	24	5	47	11	345	153	623	361
Farm operators and managers													
Farm occupations, except managerial													
Related agricultural occupations													
Supervisors, related agricultural occupations													
Groundskeepers and gardeners, except farm													
Animal caretakers, except farm													
Graders and sorters, agricultural products													
Inspectors, agricultural products													

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.														
Machinery, except electrical—Con.														
Electrical machinery, equipment, and supplies														
Office and accounting machines			Electronic computing equipment		Machinery, except electrical, n.e.c.		Not specified machinery *		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies, n.e.c.	
Total	Female		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
7	—		—	—	128	—	6	—	—	—	19	9	56	26
—	—		—	—	9	—	—	—	—	—	10	—	8	—
—	—		—	—	25	—	—	—	—	—	13	9	22	11
7	—		—	—	94	—	6	—	—	—	6	—	26	7
9	—		—	—	45	—	—	—	9	—	50	6	17	—
—	—		—	—	7	—	—	—	—	—	—	—	6	—
—	—		—	—	14	—	—	—	9	—	—	—	—	—
9	—		—	—	24	—	—	—	—	—	50	6	11	—
15 649	2 686		50 082	13 704	318 550	15 255	12 211	417	26 862	3 691	110 824	32 762	231 172	74 233
7 258	761		16 628	1 613	52 748	2 056	2 510	94	8 652	1 121	33 149	6 627	39 903	6 160
96	—		195	—	896	41	6	—	173	14	594	70	821	30
7 162	761		16 433	1 602	51 852	2 015	2 504	94	8 479	1 107	32 555	6 557	39 082	6 130
62	9		185	11	5 797	289	159	2	321	19	560	96	2 037	296
39	9		93	—	3 232	208	77	2	88	12	236	43	1 102	174
—	—		—	—	342	—	13	—	10	—	50	13	94	4
13	—		27	—	84	19	4	—	11	—	110	20	166	16
—	—		—	—	155	2	5	—	35	7	—	—	94	33
6	—		29	—	180	8	17	—	9	—	28	13	77	30
—	—		11	11	27	12	—	—	—	—	108	7	403	34
4	—		17	—	1 596	32	43	—	168	—	17	—	28	5
—	—		8	—	181	8	—	—	—	—	—	—	13	399
1 292	92		1 824	106	18 033	310	776	6	2 184	94	2 439	231	13 399	1 098
12	—		30	14	706	39	7	—	139	16	95	16	430	53
840	100		11 202	922	2 086	276	43	7	2 602	535	23 197	4 802	8 798	1 975
237	25		799	150	542	52	6	—	148	29	4 350	1 285	3 207	665
524	72		10 116	717	257	77	22	7	19	15	580	146	1 092	153
27	—		77	10	692	11	5	—	2 204	397	156	55	585	57
—	—		—	—	17	17	—	—	—	—	232	64	48	19
28	3		149	17	239	23	10	—	41	2	17 652	3 191	832	270
—	—		61	28	339	96	—	—	190	92	227	61	3 034	811
48	—		267	—	4 699	125	6	—	861	78	284	7	563	—
4 908	560		2 925	549	20 531	976	1 513	79	2 372	381	5 980	1 405	13 855	2 708
157	37		66	27	159	8	9	9	32	9	106	45	386	161
—	—		25	—	21	9	—	—	—	—	35	—	16	—
2 289	219		333	65	102	7	—	—	9	—	64	14	275	133
151	—		6	9	336	50	—	—	8	—	89	10	135	15
8	—		9	—	98	5	2	—	12	—	42	—	140	13
639	226		386	150	7 582	380	1 070	59	649	124	796	130	2 277	346
1 088	54		868	187	6 587	310	214	—	710	140	1 944	575	5 541	1 198
576	24		1 232	120	5 646	207	218	11	952	108	2 904	631	5 085	842
—	—		—	—	—	—	—	—	—	—	—	—	—	—
566	42		1 789	143	18 579	596	578	27	2 425	216	6 828	1 109	15 997	1 458
45	1		183	32	673	15	25	—	55	9	310	33	604	53
—	—		—	—	—	—	—	—	—	—	—	—	—	—
—	—		24	—	51	—	3	6	—	—	6	—	6	—
20	—		71	19	280	15	2	—	19	—	95	12	376	50
6	—		—	—	5	—	—	—	—	—	—	—	—	—
—	—		—	—	23	—	8	—	—	—	—	—	—	—
19	1		86	13	314	—	12	—	36	9	209	21	213	3
—	—		—	—	—	—	—	—	—	—	—	—	—	—
521	41		1 606	111	17 906	581	553	27	2 370	207	6 518	1 076	15 393	1 405
—	—		2	2	336	15	—	—	60	17	50	6	217	42
—	—		9	—	—	—	—	—	—	—	20	4	—	—
2	—		—	—	—	—	—	—	—	—	13	—	2	—
108	6		272	6	1 677	31	62	—	170	4	640	28	1 258	45
—	—		11	—	—	8	—	—	—	—	—	—	25	10
263	16		955	82	7 383	276	292	12	1 247	106	4 168	810	10 075	850
4	—		24	—	27	6	—	—	—	—	207	67	104	31
55	7		152	6	1 654	73	104	9	431	39	491	117	1 339	220
7	—		6	—	15	—	—	—	—	—	—	—	8	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

		Manufacturing, durable goods—Con.			
		Machinery, except electrical—Con.			
		Machinery, except electrical, n.e.c.			
		Not specified machinery			
		Household appliances			
		Radio, TV, and communication equipment			
		Electrical machinery, equipment, and supplies			
		Electrical machinery, equipment, and supplies, n.e.c.			
		Total	Female	Total	Female
Office and accounting machines		Total	Female	Total	Female
69	1	151	—	262	—
Plumbers, pipefitters, and steamfitters	—	—	—	—	—
Concrete and terraazzo finishers	—	—	—	—	—
Glaziers	—	—	—	—	—
Insulation workers	—	—	—	—	—
Roofers	—	—	—	—	—
Paving, surfacing, and tamping equipment operators	—	—	—	—	—
Sheetmetal duct installers	—	—	—	—	—
Structural metal workers	—	—	—	—	—
Drillers, earth	—	—	—	—	—
Construction trades, n.e.c.	—	—	—	—	—
Extrusive occupations	—	—	—	—	—
Supervisors, extractive occupations	—	—	—	—	—
Drillers, oil well	—	—	—	—	—
Explosives workers	—	—	—	—	—
Mining machine operators	—	—	—	—	—
Mining occupations, n.e.c.	—	—	—	—	—
Precision production occupations	7 825	31 658	11 948	15 767	2 352
Supervisors, production occupations	826	15 072	3 934	8 632	1 007
Precision metalworking occupations	2 399	4 983	582	2 340	392
Tool and die makers	814	1 009	15	2 340	392
Precision assemblers, metal	34	2 815	232	1 713	127
Machinists	1 167	—	—	—	—
Toolmakers	38	—	—	—	—
Lathe operators	91	—	—	—	—
Precision grinders, files, and tool sharpeners	91	—	—	—	—
Pottermakers and model makers, metal	—	—	—	—	—
Lay-out workers	14	—	—	—	—
Precious stones and metals workers (jewelers)	56	—	—	—	—
Shed-builders	86	—	—	—	—
Miscellaneous precision metal workers	5	—	—	—	—
Precision woodworking occupations	11	—	—	—	—
Pottermakers and model makers, wood	—	—	—	—	—
Cabinet makers and bench carpenters	6	—	—	—	—
Furniture and wood finishers	—	—	—	—	—
Miscellaneous precision woodworkers	5	—	—	—	—
Precision textile, apparel, and furnishings machine workers	26	—	—	—	—
Dressmakers	5	—	—	—	—
Tailors	—	—	—	—	—
Upholsterers	12	—	—	—	—
Shoe repairers	—	—	—	—	—
Apparel and fabric patternmakers	9	—	—	—	—
Miscellaneous precision apparel and fabric workers	—	—	—	—	—
Precision workers, assorted materials	1 130	9 218	6 946	940	610
Hand molders and shapers, except jewelers	7	81	18	206	125
Pottermakers, lay-out workers, and cutters	6	21	7	15	5
Optical goods workers	6	87	42	—	—
Dental laboratory and medical appliance technicians	—	—	—	—	—
Bookbinders	—	—	—	—	—
Electrical and electronic equipment assemblers	1 070	8 890	6 828	604	434
Miscellaneous precision workers, n.e.c.	41	123	45	115	51
Precision food production occupations	21	57	26	34	4
Butchers and meat cutters	15	37	22	23	2
Bakers	6	4	—	11	—
Food batchmakers	—	—	—	—	—
Precision inspectors, testers, and related workers	214	906	389	320	128
Inspectors, testers, and graders	208	885	385	306	114
Adjusters and calibrators	6	21	4	14	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con															
Machinery, except electrical—Con.						Electrical machinery, equipment, and supplies									
Office and accounting machines			Electronic computing equipment			Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies, n.e.c.	
Total	Female		Total	Female		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
85	8		1 376	58		1 490	92	66	—	356	35	2 102	184	1 661	203
—	—		26	2		57	—	—	—	29	—	32	2	79	9
—	—		3	—		98	7	9	—	10	—	29	—	88	—
85	8		1 347	56		1 198	69	57	—	308	26	2 005	161	1 292	134
—	—		—	—		137	16	—	—	9	—	36	21	202	60
28 949	14 017		77 871	45 806		433 560	87 303	12 930	2 034	108 088	46 902	190 527	121 234	513 220	296 394
25 619	13 074		70 840	43 758		377 889	79 818	11 263	1 817	92 499	43 109	168 069	112 916	452 075	273 551
8 913	3 227		17 285	7 537		209 438	32 454	7 104	1 076	31 995	11 254	54 762	29 608	189 934	91 344
2 732	587		3 335	926		100 657	11 198	2 654	247	10 326	2 190	8 852	3 258	38 119	11 530
366	42		351	115		8 905	376	159	5	1 334	75	1 450	393	6 449	1 957
389	64		776	132		28 029	1 467	755	24	607	80	1 150	253	5 796	1 090
118	30		95	18		4 653	286	213	46	83	28	264	40	817	110
732	268		622	146		11 513	2 802	252	70	5 127	1 359	2 488	1 185	11 100	4 991
6	—		5	—		318	59	10	—	38	22	65	41	436	223
354	125		337	141		12 539	2 147	458	44	597	211	794	363	3 717	1 231
653	50		1 024	337		30 795	3 627	754	58	2 328	365	2 056	794	8 108	2 504
7	—		18	7		732	94	7	—	30	13	82	43	383	62
9	—		26	—		447	36	2	—	6	—	69	13	179	20
98	8		81	30		2 726	304	44	—	176	37	434	133	1 134	342
121	64		138	89		1 527	426	31	17	480	296	1 077	439	2 551	1 869
447	69		973	297		7 971	913	135	22	1 970	654	2 722	929	11 955	3 630
193	48		350	173		3 688	624	82	16	1 337	549	1 142	475	5 371	1 787
144	21		573	124		1 179	83	32	—	351	50	1 310	388	5 483	1 379
89	—		13	—		2 190	125	15	—	184	44	1 177	45	619	210
—	—		—	—		—	—	—	—	—	—	—	—	—	—
21	—		37	—		914	81	6	6	98	11	93	21	482	254
68	11		62	23		1 644	193	77	8	228	132	364	102	1 264	504
6	—		19	9		1 348	32	18	—	6	—	31	6	88	36
37	—		17	4		1 366	101	53	2	32	9	199	41	603	163
6	—		10	10		1 394	46	—	—	182	123	68	40	371	263
12	5		2	—		14	8	—	—	6	—	—	—	37	22
2	—		14	—		164	6	6	—	2	—	66	15	165	—
—	—		—	—		—	—	—	—	—	—	—	—	—	—
211	87		783	307		1 872	559	15	—	197	52	1 307	494	2 339	1 294
157	38		617	181		1 220	322	15	—	150	41	1 032	486	1 949	1 068
10	10		55	31		166	6	—	—	20	6	85	65	89	37
38	33		99	85		371	211	—	—	5	5	137	118	169	150
6	6		12	10		115	20	—	—	22	25	53	25	112	39
76	55		224	117		2 444	1 407	129	78	1 295	1 185	380	226	2 118	1 524
—	—		9	—		504	277	6	6	5	—	62	30	194	139
—	—		—	—		—	—	—	—	—	—	—	—	—	—
19	19		15	15		227	158	—	—	9	9	10	7	48	31
—	—		—	—		40	—	7	—	—	—	18	2	11	11
34	13		62	17		856	659	85	65	1 204	1 131	113	86	746	606
—	—		—	—		126	52	14	7	22	22	30	—	51	44
—	—		—	—		39	22	—	—	—	—	6	—	15	9
8	8		10	5		69	24	—	—	19	6	17	—	85	73
15	15		128	80		583	215	17	—	36	17	124	95	968	611
5 258	2 354		11 770	5 778		93 323	17 758	4 063	704	17 499	6 745	40 060	23 960	131 588	70 993
65	31		107	65		419	102	16	14	89	47	571	481	1 389	1 389
66	30		61	37		577	253	10	4	101	74	253	201	1 303	939
303	3		21	—		228	45	25	—	195	33	164	36	826	148
103	29		578	279		796	95	14	—	273	48	587	377	1 954	523
—	—		49	19		398	136	6	—	173	124	173	124	141	621
11	7		6	6		319	144	—	—	92	47	737	460	815	632
355	54		786	218		5 431	474	196	15	1 750	262	1 633	509	6 423	2 097
—	—		—	—		41	26	4	—	29	—	5	—	28	15
6	—		—	—		234	26	—	—	14	—	28	12	89	36

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.													
Machinery, except electrical—Con.				Electrical machinery, equipment, and supplies									
Office and accounting machines		Electronic computing equipment		Machinery, except electrical, n.e.c.		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies, n.e.c.	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
4	4	46	7	412	169	—	—	93	45	51	13	202	80
61	16	234	54	2 934	179	35	7	455	38	605	205	3 497	990
16	9	40	27	924	88	19	4	13	—	86	41	354	97
212	78	348	135	4 494	552	48	10	678	201	988	491	4 789	1 822
—	—	—	—	13	6	—	—	—	—	—	—	7	7
72	46	433	219	598	370	48	11	29	14	605	331	1 337	916
1 067	579	3 167	1 815	24 770	4 922	943	160	3 930	2 022	12 045	7 707	44 589	26 483
3 181	1 459	5 894	2 897	50 735	10 190	2 699	479	9 741	3 908	21 529	12 972	62 420	34 198
12 612	7 779	37 177	26 343	134 834	36 439	3 761	632	52 240	27 951	85 960	65 287	202 752	140 640
744	84	1 274	401	43 267	2 366	1 670	72	5 481	1 206	3 243	1 060	18 452	6 359
339	291	1 951	1 724	1 244	711	28	14	367	215	4 644	4 148	8 308	7 227
11 483	7 386	33 796	24 106	89 470	33 121	2 033	540	46 044	26 439	77 564	59 791	174 488	126 173
6	6	35	35	112	44	6	—	44	25	83	70	208	163
19	3	24	2	120	41	6	—	36	2	74	49	206	64
19	7	39	23	291	61	12	—	158	31	170	78	495	182
—	—	—	—	21	5	—	—	10	—	6	—	9	3
—	—	3	3	27	7	—	—	5	—	5	—	44	22
2	2	55	49	282	83	6	6	95	33	171	91	542	447
4 094	2 068	16 378	9 878	33 617	10 925	398	109	8 264	3 904	27 347	18 021	59 389	41 567
3 109	1 704	11 673	7 954	28 738	9 719	337	101	7 026	3 222	23 965	16 232	52 676	37 566
949	344	4 576	1 849	4 374	971	56	8	1 113	630	3 030	1 517	5 755	3 237
—	—	9	9	75	31	—	—	26	7	30	19	156	86
36	20	120	66	430	204	5	—	99	45	322	253	802	678
1 111	104	2 866	598	23 221	1 260	671	21	6 930	698	7 082	1 327	21 045	3 145
458	10	788	104	8 954	386	337	14	1 778	89	1 837	85	6 178	228
—	—	14	—	18	6	—	—	—	—	16	—	28	2
262	5	418	55	6 103	149	239	2	1 380	51	1 253	61	4 323	107
126	—	269	27	1 988	114	82	6	287	29	316	11	2 663	44
18	5	25	12	362	65	10	—	14	—	16	—	131	29
6	—	12	—	10	2	—	—	3	—	20	—	30	7
46	—	44	4	453	45	6	6	94	9	216	13	385	32
—	—	—	—	12	5	—	—	—	—	—	—	12	7
—	—	6	6	8	—	—	—	—	—	—	—	6	—
—	—	22	—	75	—	7	—	—	—	21	4	137	35
—	—	10	—	8	—	7	—	—	—	—	—	25	13
—	—	10	—	11	—	—	—	—	—	9	4	78	22
—	—	2	—	56	—	—	—	—	—	5	—	20	—
—	—	—	—	—	—	—	—	—	—	7	—	14	—
—	—	38	—	49	—	12	—	—	—	30	9	44	—
—	—	—	—	21	—	6	—	—	—	—	—	8	—
—	—	—	—	3	—	6	—	—	—	6	—	—	—
—	—	38	—	23	—	—	—	—	—	13	—	25	—
—	—	—	—	2	—	—	—	—	—	11	9	11	—
653	94	2 018	494	14 143	874	315	7	5 152	609	5 194	1 229	14 686	2 882
13	—	155	30	245	23	5	—	50	—	234	16	371	28
—	—	40	13	145	—	—	—	8	—	110	—	105	22
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	9	—	—	—	—	—	—	—	—	—
—	—	—	—	51	2	6	—	33	12	7	—	20	13
23	—	35	6	1 986	53	66	—	213	7	182	12	1 223	57
—	—	—	—	74	3	3	—	11	6	7	7	52	13
—	—	—	—	34	—	—	—	16	—	4	—	17	2
260	9	410	20	8 091	383	175	7	3 267	324	1 893	4	6 676	765
357	85	1 378	425	3 488	385	60	—	1 554	259	2 757	862	6 222	1 982

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
Machine operators, assemblers, and inspectors—Con.
Machine operators and tenders, except precision—Con.
Machine operators, assorted materials—Con.
Folding machine operators
Furnace, kiln, and oven operators, except food
Grinding and grinding machine operators
Slicing and cutting machine operators
Motion picture projectionists
Photographic process machine operators
Miscellaneous machine operators, n.e.c.
Machine operators, not specified
Fabricators, assemblers, and hand working occupations
Welders and cutters
Solderers and brazers
Assemblers
Hand cutting and trimming occupations
Hand molding, casting, and forming occupations
Hand painting, coating and decorating occupations
Hand engraving and printing occupations
Hand grinding and polishing occupations
Miscellaneous hand working occupations
Production inspectors, testers, samplers, and weighers
Production inspectors, checkers, and examiners
Production testers
Production samplers and weighers
Graders and sorters, except agricultural
Transportation and material moving occupations
Motor vehicle operators
Supervisors, motor vehicle operators
Truck drivers, heavy
Truck drivers, light
Driver-sales workers
Bus drivers
Taxi drivers and chauffeurs
Parking lot attendants
Motor transportation occupations, n.e.c.
Rail transportation occupations
Railroad conductors and yardmasters
Locomotive operating occupations
Railroad brake, signal, and switch operators
Rail vehicle operators, n.e.c.
Water transportation occupations
Ship captains and mates, except fishing boats
Sailors and deckhands
Marine engineers
Bridge, lock, and lighthouse tenders
Material moving equipment operators
Supervisors, material moving equipment operators
Operating engineers
Longshore equipment operators
Hoist and winch operators
Crane and lower operators
Excavating and loading machine operators
Grader, dozer, and tractor equipment operators
Industrial truck and tractor equipment operators
Miscellaneous material moving equipment operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con													
Machinery, except electrical—Con						Electrical machinery, equipment, and supplies							
Office and accounting machines		Electronic computing equipment		Machinery, except electrical, n e c		Not specified machinery		Household appliances		Radio, TV, and communication equipment		Electrical machinery, equipment, and supplies, n e c	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
2 219	839	4 165	1 450	32 450	6 225	996	196	8 659	3 095	15 376	6 991	40 100	19 698
10	—	—	—	19	—	—	—	12	—	84	26	103	29
9	—	4	2	294	13	—	—	15	—	37	—	146	11
5	5	27	—	299	7	7	—	18	—	28	—	154	29
5	—	27	—	299	7	7	—	18	—	28	—	154	29
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
5	—	69	5	340	6	36	—	31	14	133	23	97	37
47	16	88	22	3 044	189	72	7	224	53	406	76	1 375	390
408	44	898	279	4 178	500	158	41	3 010	755	3 637	1 563	10 767	4 598
10	5	10	10	11	—	6	—	10	5	29	14	79	46
—	—	—	—	14	—	—	—	—	—	—	—	—	—
124	7	360	116	1 524	205	64	27	359	97	1 203	524	1 953	615
174	9	213	61	928	155	53	14	1 577	503	1 565	771	5 908	3 076
100	23	315	92	1 701	140	35	—	1 064	150	840	254	2 827	861
12	—	—	—	92	21	2	—	6	—	7	7	90	36
35	—	92	36	1 426	202	63	—	184	52	259	143	993	417
889	486	1 039	420	6 587	2 751	120	96	2 137	1 272	4 725	2 740	12 629	8 169
799	288	1 948	686	16 171	2 536	538	52	3 022	949	6 066	2 413	13 746	5 982

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers,
 n e c
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyors
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Sievedores
 Stock handlers and baggers
 Machine feeders and offbearers
 Freight, stock, and material handlers, n e c
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A [

United States

Not specified electrical machinery, equipment, and supplies	Motor vehicles and motor vehicle equipment		Aircraft and parts		Ship and boat building and repairing		Railroad locomotives and equipment		Guided missiles, space vehicles, and parts		Cycles and miscellaneous transportation equipment		
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
Employed persons 16 years and over	165 919	74 399	1 171 123	213 237	624 861	133 170	303 356	68 476	6 938	200 603	46 072	60 033	13 775
Managerial and professional specialty occupations	36 209	5 446	128 413	13 690	151 237	15 251	32 370	7 024	7 795	92 912	9 743	7 562	1 063
Executive, administrative, and managerial occupations	20 835	4 275	69 394	8 966	52 661	8 275	16 083	4 068	5 545	29 737	5 068	5 241	858
Legislators, chief executives, and general administrators; public administrators	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators and officials, public administration	—	—	—	—	—	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators, protective services	—	—	7	—	5	—	—	—	—	—	—	—	—
Financial managers	686	146	2 325	267	1 722	202	344	196	11	1 026	126	164	43
Personnel and labor relations managers	596	179	2 560	437	1 883	373	610	98	37	1 203	300	169	36
Purchasing managers	408	90	933	101	1 923	225	449	78	—	1 329	182	147	20
Managers, marketing, advertising, and public relations	2 288	130	6 593	398	1 838	109	633	257	78	805	16	571	39
Managers, education and related fields	12	—	44	13	53	6	71	—	—	47	—	2	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, properties and real estate	—	—	—	—	—	—	—	—	—	—	—	—	—
Postmaster and mail superintendents	27	—	66	—	125	20	32	8	—	118	16	7	7
Federal directors	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers and administrators, n.e.c.	12 724	1 876	31 365	2 185	24 980	2 054	8 967	1 955	195	16 254	1 462	2 907	306
Salaries	12 298	1 815	30 263	2 061	24 635	1 997	8 242	1 914	183	16 213	1 450	2 668	289
Self-employed	426	61	1 102	124	345	57	725	83	10	41	12	239	37
Management related occupations	4 094	1 854	25 501	5 565	20 126	5 275	4 977	1 476	302	8 955	2 966	1 274	407
Accountants and auditors	1 483	645	12 234	3 168	7 316	2 388	1 683	756	157	3 536	1 370	475	199
Underwriters	—	—	12	12	2	—	—	—	—	—	—	—	—
Other financial officers	137	26	1 458	209	1 439	389	212	62	—	965	315	60	16
Management analysts	122	23	636	85	602	88	184	24	—	466	166	34	6
Personnel, training, and labor relations specialists	756	462	5 778	1 138	3 385	939	1 014	267	62	1 484	430	192	45
Purchasing agents and buyers, farm products	—	—	—	—	—	—	—	—	—	—	—	—	—
Buyers, wholesale and retail trade except farm products	—	—	—	—	—	—	—	—	—	—	—	—	—
Purchasing agents and buyers, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—
Purchasing agents and buyers, n.e.c.	1 557	682	4 774	904	6 755	1 383	1 468	345	83	2 243	643	513	141
Business and promotion agents	—	—	—	—	—	—	—	—	—	—	—	—	—
Construction inspectors	7	2	24	6	11	—	36	5	—	26	7	—	—
Inspectors and compliance officers, except construction	12	6	334	5	449	26	343	12	—	131	16	—	—
Management related occupations, n.e.c.	20	8	192	38	147	62	31	5	—	88	19	—	—
Professional specialty occupations	15 374	1 171	59 019	4 724	98 576	6 976	16 287	2 956	250	63 175	4 675	2 321	205
Engineers, architects, and surveyors	12 281	568	43 994	1 612	78 430	2 738	11 979	2 255	72	51 166	1 950	1 625	28
Architects	—	—	—	8	65	—	199	—	—	53	7	—	—
Engineers	12 269	568	43 886	1 604	78 360	2 738	11 756	2 249	66	51 106	1 943	1 625	28
Aerospace engineers	144	6	226	—	45 002	1 301	220	55	18	28 679	1 012	26	6
Metalurgical and materials engineers	31	6	1 059	25	1 202	90	247	23	5	440	18	58	—
Mining engineers	—	—	—	—	6	—	12	—	—	—	—	—	—
Petroleum engineers	—	—	3	—	—	—	5	—	—	—	—	—	—
Chemical engineers	67	—	323	33	425	48	67	—	—	285	26	—	—
Nuclear engineers	8	—	2	2	32	—	793	—	—	164	6	—	—
Civil engineers	47	—	53	2	1 464	48	377	101	—	684	22	9	—
Agricultural engineers	—	—	—	—	—	—	—	—	—	—	—	—	—
Electrical and electronic engineers	8 509	228	2 062	49	7 836	104	1 407	194	—	9 342	190	118	—
Industrial engineers	1 868	257	10 223	473	13 891	955	2 034	771	14	5 270	420	548	14
Mechanical engineers	347	23	26 553	693	5 303	62	1 325	837	16	2 946	77	652	6
Marine engineers and naval architects	—	—	—	—	—	—	2 843	—	—	—	—	—	—
Engineers, n.e.c.	1 048	48	2 847	120	3 176	126	2 298	253	13	3 357	172	214	2
Surveyors, n.e.c.	7	—	14	—	5	—	22	6	—	7	—	—	—
Mathematical and computer scientists	694	107	4 389	738	8 889	1 926	801	205	29	6 030	1 416	159	28
Computer systems analysts and scientists	403	53	2 474	339	4 647	1 003	379	105	16	3 351	746	12	12
Operations and systems researchers and analysts	253	41	1 437	260	3 214	603	364	87	2	1 800	404	75	6
Astronomers	—	—	—	—	—	—	—	—	—	—	—	—	—
Statisticians	27	13	460	131	437	251	41	13	11	399	215	22	8
Mathematical scientists, n.e.c.	11	—	5	—	591	69	17	—	—	478	44	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

Manufacturing, durable goods—Con.

United States

Employed persons 16 years and over—Con

Managerial and professional specialty occupations—Con

Professional specialty occupations—Con

Natural scientists	243	40	871	122		759	141	545	38	25		1 327	132	36	
Physicists and astronomers	98	12	31			173	11	241				701	77	4	
Chemists, except biochemists	91	16	677	108		481	111	256	28	25		428	81	31	
Atmospheric and space scientists	26		26	12		39	7	16				133	15		
Geologists and geodesists	14	7	38			12	5	5				18	9		
Agricultural and food scientists	5		10			5	5	36	5				7		
Biological and life scientists	9	5	52	2		21	7	11				31	13		
Forestry and conservation scientists			17			17									
Medical scientists			8												
Health diagnosing occupations			157	20		90	5	37				73	16		
Physicians			138	20		55	5	15				46	11		
Dentists			13			15		10				27	5		
Veterinarians															
Optometrists						1		12							
Podiatrists			6			19									
Health diagnosing practitioners, n.e.c.															
Registered nurses	36	30	1 290	1 187		542	527	204	156	73	73	126	111	47	47
Pharmacists	36	30	1 251	1 176		528	515	185	151	73	73	111	111	47	47
Dietitians			6	6		14	12	12	5						
Therapists			5												
Physicians' assistants			28	5				7				15			
Teachers, postsecondary	21	14	47	11		48	7	38				24	9	1	1
Teachers, except postsecondary	225	90	464	59		1 402	73	613	7	25		263		14	
Teachers, prekindergarten and kindergarten															
Teachers, elementary and secondary school															
Teachers, special education						62		6				16			
Teachers, vocational	11					340	73	607	7	25		247		14	
Counselors, educational and vocational	209		464	59		23	9	21				20	7	4	
Librarians, archivists, and curators	29	12	76	69		233	188	43	38	6		176	118		
Archivists and curators	18	12	71	64		233	188	43	38	6		174	118		
Social scientists and urban planners	11		5	5								2			
Social scientists															
Economists	329	56	801	188		1 093	143	49	8	60	20	570	66	32	15
Psychologists	324	51	777	188		1 023	137	49	8	60	20	524	66	25	8
Sociologists	5		16			57	6					37		7	7
Social scientists, n.e.c.						13						9			
Urban planners			8			39	13								
Social, recreation, and religious workers	5		37	20			13	22	7						
Social workers			23	12		31	13	13	7						
Recreation workers	5		8	8				9							
Clergy			6			8									
Religious workers, n.e.c.															
Lawyers and judges	61		736	85		382	38	101	3	31	9	180	11	28	
Lawyers	61		736	85		382	38	101	3	31	9	180	11	28	
Judges															
Writers, artists, entertainers, and athletes															
Authors	1 450	254	6 152	613		6 646	1 168	1 814	176	276	47	3 220	839	375	82
Technical writers	6		22	6		105	18	6				29	20	2	
Designers	38		417	65		2 374	217	211	16	24	7	1 096	296	120	23
Musicians and composers	754	68	3 947	127		1 365	178	1 214	86	168	21	575	51	164	19
Actors and directors			15	6		8						6			
Painters, sculptors, craft-artists, and artist printmakers	11		12	6		34	3	18		11	11	79			
Photographers	133	67	734	172		1 534	470	70	2	26	8	544	137	28	19
Dancers	27	5	168	22		354	13	76	12	22		238	14	8	3
Artists, performers, and related workers, n.e.c.	23	6	33	20		62	16	9	9			12			
Editors and reporters	48		170	85		403	167	50	30	7		385	206	15	10
Public relations specialists	125	51	619	98		401	86	100	21	18		248	115	20	10
Announcers						6		60							
Athletes			15	6											18

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

United States

United States

	Employed persons 16 years and over—Con.										Cycles and miscellaneous transportation equipment	
	Not specified electrical machinery, equipment, and supplies		Motor vehicles and motor vehicle equipment		Aircraft and parts		Ship and boat building and repairing		Railroad locomotives and equipment			Guided missiles, space vehicles, and parts
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations	43 426	19 595	149 759	61 698	132 951	63 149	38 350	16 678	8 346	3 582	53 013	25 173
Technicians and related support occupations	14 338	2 483	22 509	2 478	33 494	4 975	9 290	921	1 362	165	18 087	2 744
Health technologists and technicians	39	15	255	104	106	48	267	85	22	15	45	11
Clinical laboratory technologists and technicians	7	7	48	18	20	4	52	18	—	—	16	—
Dental hygienists	—	—	—	—	6	—	3	3	—	—	—	—
Health record technologists and technicians	—	—	—	—	—	—	—	—	—	—	8	—
Radiologic technicians	—	—	20	6	13	15	58	—	—	—	—	—
Licensed practical nurses	—	—	17	62	17	17	49	36	15	15	—	—
Health technologists and technicians, n.e.c.	32	8	117	18	50	14	105	28	7	—	21	—
Engineering and related technologists and technicians	10 357	1 594	16 211	1 201	22 356	2 965	7 107	484	1 094	93	10 666	1 285
Electrical and electronic technicians	7 851	1 011	1 483	1 121	6 195	423	1 697	68	127	14	4 479	360
Mechanical engineering technicians	86	—	306	23	167	17	76	13	55	10	76	17
Mechanical engineering technicians, n.e.c.	86	—	2 520	60	1 279	73	133	—	32	—	616	27
Engineering technicians	768	283	3 839	418	6 140	1 108	2 469	88	208	26	2 794	460
Drafting occupations	1 571	300	8 029	572	8 515	1 319	2 641	315	672	421	2 681	17
Surveying and mapping technicians	21	—	34	7	60	11	91	—	—	—	20	—
Science technicians	422	204	856	140	1 116	153	542	38	31	13	777	110
Biological technicians	51	40	38	14	22	—	5	—	—	—	20	7
Chemical technicians	41	26	250	41	173	34	91	25	—	—	214	42
Science technicians, n.e.c.	330	138	568	85	921	119	446	13	31	13	543	61
Technicians, except health, engineering, and science	3 520	670	5 187	1 033	9 916	1 809	1 374	314	215	44	6 599	1 338
Airplane pilots and navigators	21	—	126	—	1 127	30	65	6	2	—	71	—
Air traffic controllers	—	—	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators	54	7	51	13	89	18	53	—	6	—	28	—
Computer programmers	997	286	2 951	778	5 153	1 318	492	140	146	38	3 782	1 031
Tool programmers, numerical control	48	11	141	27	519	19	37	—	17	—	126	31
Legal assistants	7	—	95	41	60	43	20	14	6	6	6	—
Technicians, n.e.c.	2 393	359	1 823	174	2 968	381	707	154	38	—	2 586	270
Sales occupations	6 566	827	16 019	1 544	3 985	789	1 883	345	667	87	1 188	184
Supervisors and proprietors, sales occupations	472	55	2 357	111	567	68	294	28	43	6	204	18
Salaried	422	42	2 244	85	561	68	241	13	56	6	204	18
Self-employed	50	13	103	26	6	—	53	13	7	—	—	—
Sales representatives, finance and business services	24	6	91	13	15	13	14	—	—	—	15	—
Insurance sales occupations	—	—	—	—	—	—	—	—	—	—	—	—
Real estate sales occupations	18	—	23	—	2	—	7	—	—	—	9	—
Activities and financial sales occupations	—	—	—	—	—	—	—	—	—	—	—	—
Advertising and related sales occupations	6	6	68	13	13	13	7	—	—	—	6	—
Sales occupations, other business services	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	5 532	630	9 913	736	2 768	312	1 385	274	581	68	844	91
Sales engineers	626	29	742	9	322	6	18	—	55	5	102	29
Sales representatives, mining, manufacturing, and wholesale	4 906	601	9 171	727	2 446	306	1 367	274	526	63	742	91
Sales workers, retail and personal services	526	134	3 570	678	612	389	190	43	43	13	125	75
Sales workers, commodities	288	30	2 570	225	259	51	79	6	29	6	43	6
Sales counter clerks	16	8	39	7	—	—	7	—	5	5	—	—
Cashiers	184	79	517	425	336	321	95	43	9	2	76	69
Street and door-to-door sales workers	26	11	48	13	12	12	2	—	—	—	—	—
News vendors	12	6	41	8	5	5	7	—	—	—	6	—
Sales related occupations	12	2	88	6	23	7	—	—	—	—	—	—
Demonstrators, promoters and models, sales	10	—	80	6	11	—	—	—	—	—	—	—
Auctioneers	2	2	—	—	—	—	—	—	—	—	—	—
Sales support occupations, n.e.c.	2	—	8	—	12	7	—	—	—	—	—	—
Administrative support occupations, including clerical	22 522	16 285	111 231	57 676	95 472	57 385	27 177	15 412	6 317	3 330	33 738	22 245
Supervisors, administrative support occupations	1 250	554	8 324	1 468	5 302	1 420	1 285	443	406	69	2 070	497
Supervisors, general office equipment operators	477	241	2 946	802	2 138	962	646	291	170	50	815	335
Supervisors, computer equipment operators	79	9	237	73	237	47	76	12	6	—	366	27
Supervisors, financial records processing	197	101	1 962	456	1 012	224	210	102	73	19	415	85
Chief communications operators	—	—	16	11	23	7	14	7	3	—	12	12
Supervisors, distribution, scheduling, and adjusting clerks	497	203	2 763	126	1 554	180	339	31	154	—	462	38
Computer equipment operators	706	392	4 455	2 150	3 938	1 949	701	345	199	80	2 033	926
Computer operators	684	375	4 148	1 978	3 706	1 848	646	313	179	66	1 981	896
Peripheral equipment operators	22	17	307	172	232	101	55	32	20	14	30	30

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Electrical machinery, equipment, and supplies—Con.		Not specified electrical machinery, equipment, and supplies		Motor vehicles and motor vehicle equipment		Aircraft and parts		Ship and boat building and repairing		Railroad locomotives and equipment		Guided missiles, space vehicles, and parts		Cycles and miscellaneous transportation equipment	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States																
Employed persons 16 years and over—Con.																
Technical, sales, and administrative support occupations—Con	5 595	5 543	23 788	23 373	22 808	22 559	6 204	6 060	1 491	1 468	11 171	11 015	1 885	1 859		
Administrative support occupations, including clerical—Con	5 092	5 030	20 714	20 453	18 927	18 301	4 415	4 317	1 288	1 268	9 639	9 537	1 592	1 571		
Secretaries, stenographers, and typists	33	33	349	360	59	394	139	139	29	29	129	128	30	30		
Stenographers	470	460	2 705	2 560	3 787	3 684	1 630	1 604	194	194	1 398	1 350	263	258		
Typists	474	448	1 342	1 173	769	659	283	241	68	61	332	276	120	120		
Information clerks	26	16	102	78	78	40	22	15	11	11	12	6	14	14		
Interviewers	6	6	92	92	109	64	41	29	15	8	56	44	—	—		
Hotel clerks	397	394	990	963	486	479	201	190	40	40	214	214	104	104		
Transportation ticket and reservation agents	45	32	136	128	96	76	19	19	2	2	50	12	2	2		
Receptionists	1 461	992	5 802	2 553	5 619	3 828	1 254	732	284	147	1 631	1 043	273	142		
Information clerks, n.e.c.	28	28	29	21	4	—	7	7	—	—	—	—	8	8		
Records processing occupations, except financial	26	26	75	43	52	45	2	—	7	7	41	34	—	—		
Classified-ad clerks	391	268	2 237	932	1 349	811	287	91	98	36	256	141	91	55		
Correspondence clerks	124	123	705	508	734	624	206	191	83	66	198	174	41	32		
Order clerks	6	6	10	6	58	47	—	—	—	—	52	52	6	6		
Personnel clerks, except payroll and timekeeping	791	458	2 517	926	3 164	2 101	730	427	89	38	1 034	608	125	47		
Library clerks	83	83	229	117	258	200	22	16	7	7	50	34	2	2		
File clerks	2 515	2 219	10 974	8 382	5 975	4 476	3 140	2 382	707	500	2 130	1 508	1 093	876		
Records clerks	2 099	1 864	7 320	5 938	4 048	3 232	2 168	1 823	363	305	1 533	1 137	760	661		
Financial records processing occupations	241	224	2 359	1 520	1 067	755	827	484	241	103	302	206	251	170		
Bookkeepers, accounting, and auditing clerks	78	78	241	638	246	213	69	38	66	66	102	82	30	28		
Payroll and timekeeping clerks	68	28	418	185	543	244	37	17	33	24	161	58	39	12		
Billing clerks	29	25	136	101	71	32	39	20	4	2	32	25	13	5		
Cost and rate clerks	83	47	238	140	553	372	147	69	10	10	284	178	11	11		
Billing, posting, and calculating machine operators	41	29	108	63	314	243	92	28	—	—	211	119	9	9		
Duplicating, mail, and other office machine operators	42	18	120	65	222	121	55	41	10	10	62	48	2	2		
Duplicating machine operators	138	143	552	505	470	457	177	167	42	42	212	207	43	43		
Mail preparing and paper handling machine operators	150	143	527	498	450	446	177	167	42	42	212	207	43	43		
Office machine operators, n.e.c.	18	18	19	7	11	11	—	—	—	—	—	—	—	—		
Communications equipment operators	132	65	980	366	745	292	242	102	66	30	231	72	101	67		
Telephone operators	108	59	798	324	585	218	205	98	—	—	—	—	—	—		
Telegraphers	24	6	182	42	160	74	37	8	—	—	167	65	86	60		
Mail and message distributing occupations	6 473	3 148	35 315	6 396	32 617	9 640	8 321	1 724	2 079	399	7 534	2 411	1 931	546		
Postal clerks, except mail carriers	35	15	365	198	503	228	46	9	6	6	88	14	11	11		
Mail carriers, except postal service	1 451	789	8 583	1 736	11 489	3 470	2 771	339	532	122	3 408	979	323	104		
Mail clerks, except postal service	1 953	775	8 402	1 571	3 578	911	3 618	990	477	135	403	161	568	65		
Material recording, scheduling, and distributing clerks	2 176	1 080	14 825	2 373	11 355	3 547	3 618	990	765	121	2 009	732	842	290		
Dispatchers	93	59	808	115	183	49	88	24	24	6	27	13	13	11		
Production coordinators	666	383	2 133	632	5 222	1 304	776	222	256	62	1 216	411	159	57		
Traffic, shipping, and receiving clerks	99	47	146	45	287	131	21	11	6	—	178	96	15	8		
Stock and inventory clerks	405	170	2 286	705	1 087	356	300	131	13	13	382	129	61	29		
Meter readers	309	113	2 165	668	1 044	334	279	110	60	13	368	121	60	28		
Weights, measurers, and checkers	96	57	121	37	36	15	10	10	—	—	8	8	—	—		
Samplers	3 270	2 564	17 175	10 465	15 589	5 862	5 123	3 016	905	511	5 728	3 983	876	634		
Expeditioners	1 975	1 631	9 402	5 810	7 201	2 201	3 179	2 085	457	219	2 515	2 083	465	340		
Material recording, scheduling, and distributing clerks, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Adjusters and investigators	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Insurance adjusters, examiners, and investigators	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Investigators and adjusters, except insurance	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Eligibility clerks, social welfare	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Bill and account collectors	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Miscellaneous administrative support occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
General office clerks	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Bank tellers	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Proofreaders	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Data-entry keyers	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Statistical clerks	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Teachers aides	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Administrative support occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—		

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

		Manufacturing, durable goods—Con.									
		Transportation equipment									
Electrical machinery, equipment, and supplies—Con.		Motor vehicles and motor vehicle equipment		Aircraft and parts		Ship and boat building and repairing		Railroad locomotives and equipment		Guided missiles, space vehicles, and parts	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States											
Employed persons 16 years and over—Con.											
Service occupations	2 429	424	4 092	11 350	1 735	6 549	943	1 277	153	3 514	574
Private household occupations	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	508	47	7 830	4 118	236	2 637	145	311	—	1 744	179
Supervisors, protective service occupations	30	—	501	340	24	164	—	32	—	182	29
Supervisors, firefighting and fire prevention occupations	—	—	87	74	—	55	—	—	—	18	—
Supervisors, police and detectives	—	—	—	—	—	—	—	—	—	—	—
Supervisors, guards	30	—	414	266	24	109	—	32	—	164	29
Firefighting and fire prevention occupations	—	—	306	521	17	464	26	16	—	104	—
Fire inspection and fire prevention occupations	—	—	160	65	—	190	26	10	—	—	—
Firefighting occupations	—	—	146	456	17	274	—	6	—	104	12
Police and detectives	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—	—
Guards	478	47	7 023	3 257	195	2 009	119	263	—	1 458	150
Crossing guards	—	—	6	—	—	5	—	—	—	6	—
Guards and police, except public service	473	47	7 007	3 257	195	1 987	119	263	—	1 452	150
Protective service occupations, n.e.c.	5	—	10	—	—	17	—	—	—	—	—
Service occupations, except protective and household	1 921	377	24 721	7 232	1 499	3 912	798	966	153	1 770	395
Food preparation and service occupations	63	55	921	803	513	293	127	50	21	150	79
Supervisors, food preparation and service occupations	—	—	45	88	33	—	—	—	—	7	—
Bar-tenders	—	—	14	—	—	—	—	—	—	2	—
Waiters and waitresses	13	13	179	80	69	23	16	9	6	13	6
Cooks, except short order	22	22	327	170	104	174	70	18	10	39	26
Short-order cooks	—	—	—	31	12	6	—	—	—	—	—
Food counter, fountain and related occupations	2	—	18	6	6	17	17	6	—	—	—
Kitchen workers, food preparation	—	—	82	8	—	27	—	12	—	5	5
Waiters' and waitresses' assistants	—	—	70	125	92	11	11	—	—	45	24
Miscellaneous food preparation occupations	26	20	186	295	189	35	13	5	5	39	18
Health service occupations	15	15	176	54	34	70	29	3	3	—	—
Dental assistants	—	—	—	—	—	—	—	—	—	—	—
Health aides, except nursing	—	—	22	21	6	—	—	—	—	—	—
Nursing aides, orderlies, and attendants	15	15	154	33	28	21	29	—	—	—	—
Cleaning and building service occupations, except household	1 834	305	23 369	6 237	910	3 444	618	898	120	1 559	310
Supervisors, cleaning and building service workers	17	—	300	141	14	95	—	25	—	81	13
Laundries and pressmen	112	31	1 050	256	40	344	136	55	16	34	17
Ironers and cleaners	—	—	21 924	5 820	836	2 974	461	798	84	1 444	280
Elevator operators	1 688	267	85	—	—	—	5	20	20	—	—
Pest control occupations	—	—	—	—	—	—	—	—	—	—	—
Personal service occupations	7	—	—	—	—	6	—	—	—	—	—
Supervisors, personal service occupations	9	2	305	138	42	105	24	15	9	61	6
Barbers	—	—	5	34	3	20	5	6	—	—	—
Hairstylists and cosmetologists	—	—	6	5	—	—	—	—	—	—	—
Attendants, amusement and recreation facilities	—	—	29	21	7	11	6	—	—	—	—
Guides	—	—	17	—	—	—	—	—	—	—	—
Ushers	7	—	18	9	—	21	—	—	—	—	—
Public transportation attendants	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	6	6	—	—	—	—	—	—
Welfare service aides	—	—	—	16	—	—	—	—	—	—	—
Child care workers, except private household	—	—	22	—	2	13	—	9	9	6	6
Personal service occupations, n.e.c.	2	2	203	47	24	34	13	—	—	5	8
Farming, forestry, and fishing occupations	162	88	402	271	20	230	51	12	—	85	6
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	—	—	—	6	—	37	28	—	—	—	—
Related agricultural occupations	97	73	334	190	14	22	6	12	—	78	6
Supervisors, related agricultural occupations	61	15	13	16	—	—	—	—	—	—	—
Groundskeepers and gardeners, except farm	2	2	303	174	14	22	6	12	—	71	6
Animal caretakers, except farm	59	13	16	—	—	—	—	—	—	—	—
Animal breeders, except farm	—	—	—	—	—	—	—	—	—	—	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	2	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States		Manufacturing, durable goods—Con.									
		Transportation equipment									
Electrical machinery, equipment, and supplies—Con.		Motor vehicles and motor vehicle equipment		Aircraft and parts		Ship and boat building and repairing		Railroad locomotives and equipment		Guided missiles, space vehicles, and parts	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Not specified electrical machinery, equipment, and supplies											
33 222	14 985	250 504	10 621	166 649	17 052	136 375	5 571	16 614	382	25 937	3 046
4 631	876	85 229	2 630	39 448	2 664	28 527	651	4 444	64	4 444	323
85	5	956	25	1 784	64	1 307	31	82	—	134	—
4 546	871	84 273	2 605	37 664	2 600	27 220	620	4 027	64	4 310	323
310	10	39 845	1 482	24 078	1 598	4 592	109	1 802	32	1 599	61
228	4	29 124	1 192	999	36	488	20	236	—	1 198	—
7	—	5 390	108	169	—	1 673	15	15	7	—	—
33	6	164	13	14 964	673	74	—	23	9	547	38
3	—	533	12	65	—	1 667	49	—	—	11	—
3	—	3 286	119	59	8	24	—	18	—	—	—
6	—	51	19	7 615	867	110	6	4	—	353	23
19	—	1 189	12	207	6	513	12	1 506	16	44	—
14	—	108	7	—	—	43	—	—	—	6	—
790	117	17 895	251	3 252	59	8 634	202	524	—	497	20
9	7	2 247	62	500	19	162	—	82	6	62	—
2 180	421	1 746	195	4 038	488	1 908	67	278	15	872	115
1 380	226	793	71	1 851	130	1 617	54	69	8	546	79
272	68	185	16	262	31	20	—	18	—	163	20
128	9	83	8	14	—	33	11	—	—	25	—
113	36	166	—	41	—	80	—	12	—	18	6
287	82	519	100	1 870	327	158	2	179	7	120	10
35	—	647	5	407	9	355	—	15	—	166	—
1 222	316	21 893	610	5 389	427	11 369	242	1 326	11	1 584	127
81	40	71	38	470	54	130	6	7	—	57	5
37	5	71	—	43	—	30	—	—	—	24	—
20	—	33	—	73	—	19	—	—	—	40	—
20	—	210	—	40	9	58	—	37	—	56	3
132	59	40	—	18	—	18	—	8	—	—	—
401	94	12 511	162	1 248	19	222	—	495	—	135	6
551	117	6 041	248	2 316	306	218	—	501	4	615	51
2 872	378	2 926	142	1 181	39	1 571	18	278	—	627	62
17	—	30 372	817	12 330	1 147	58 303	2 950	4 167	53	2 413	94
124	17	663	4	435	26	3 650	2	56	—	158	—
—	—	2	—	—	—	—	—	—	—	11	—
6	—	2	—	48	—	634	—	18	—	10	—
99	17	314	—	194	26	854	—	23	—	89	—
—	—	6	—	4	—	565	—	—	—	7	—
—	—	7	—	37	—	1 043	—	—	—	—	—
19	—	332	4	152	—	554	2	15	—	41	—
2 748	361	29 709	813	11 895	1 121	54 653	2 948	4 111	53	2 255	94
6	—	425	32	180	69	62	—	14	—	—	—
—	—	23	—	81	5	11	—	—	—	40	5
—	—	103	12	58	19	124	68	14	—	—	—
237	32	2 167	96	1 451	42	17 868	705	405	6	334	5
5	—	18	—	5	—	26	14	—	—	—	—
2 106	235	14 931	296	5 881	726	11 427	439	1 305	15	1 114	50
38	21	21	2	21	12	97	6	—	—	15	7
172	36	2 990	239	1 674	135	5 073	496	370	15	194	16
—	—	—	7	—	—	—	—	—	—	—	—
Employed persons 16 years and over—Con											
Farming, forestry, and fishing occupations—Con											
Forestry and logging occupations											
Supervisors, forestry and logging workers											
Forestry workers, except logging											
Timber cutting and logging occupations											
Fishers, hunters, and trappers											
Captains and other officers, fishing vessels											
Trappers											
Hunters and trappers											
Precision production, craft, and repair occupations											
Mechanics and repairers											
Supervisors, mechanics and repairers											
Mechanics and repairers, except supervisors											
Vehicle and mobile equipment mechanics and repairers											
Automobile mechanics											
Bus, truck, and stationary engine mechanics											
Aircraft engine mechanics											
Small engine repairers											
Automobile body and related repairers											
Aircraft mechanics, except engine											
Heavy equipment mechanics											
Farm equipment mechanics											
Industrial machinery repairers											
Machinery maintenance occupations											
Electrical and electronic equipment repairers											
Electronic repairers, communications and industrial equipment											
Data processing equipment repairers											
Household appliance and power tool repairers											
Telephone line installers and repairers											
Telephone installers and repairers											
Miscellaneous electrical and electronic equipment repairers											
Heating, air conditioning, and refrigeration mechanics											
Miscellaneous mechanics and repairers											
Camera, watch, and musical instrument repairers											
Opticians and optician assistants											
Opticians and optician assistants											
Mechanical controls and valve repairers											
Elevator installers and repairers											
Milkwrights											
Specified mechanics and repairers, n.e.c.											
Not specified mechanics and repairers											
Construction trades											
Supervisors, construction occupations											
Supervisors, brickmasons, stonemasons, and tile setters											
Supervisors, carpenters and related workers											
Supervisors, electricians and power transmission installers											
Supervisors, painters, paperhangers, and plasterers											
Supervisors, plumbers, pipefitters, and steamfitters											
Supervisors, n.e.c.											
Construction trades, except supervisors											
Brickmasons and stonemasons											
Tile setters, hard and soft											
Carpet installers											
Carpenters											
Drywall installers											
Electricians											
Electrical power installers and repairers											
Painters, construction and maintenance											
Paperhangers											

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A)

United States											
Manufacturing, durable goods—Con.											
Transportation equipment											
Electrical machinery, equipment, and supplies—Con.											
Not specified electrical machinery, equipment, and supplies											
Motor vehicles and motor vehicle equipment		Aircraft and parts		Ship and boat building and repairing		Railroad locomotives and equipment		Guided missiles, space vehicles, and parts		Cycles and miscellaneous transportation equipment	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
138	23	1 942	20	16 408	6	740	12	390	7	437	12
—	—	—	—	23	767	—	—	—	—	—	—
—	55	—	—	16 408	2	—	—	—	—	—	—
—	186	—	—	29	30	—	—	—	—	—	—
3	84	21	21	2 262	364	47	—	52	11	17	—
—	—	—	—	4	—	—	—	—	—	2	—
—	45	—	—	37	—	—	—	—	—	53	—
18	55	54	6	460	6	20	—	16	—	—	—
7	185	184	10	531	28	—	—	85	—	55	—
—	41	186	29	7	7	1 166	—	—	—	11	6
7	—	86	—	11	2	—	—	—	—	11	—
—	6	16	16	100	27	30	5	2	2	20	2
7	148	110	16	99	—	78	—	47	—	—	—
—	—	9	—	14	—	2	—	—	—	—	—
—	5	7	—	18	—	—	—	—	—	—	—
7	128	80	8	52	—	76	—	35	—	2	—
—	12	14	8	6	—	—	—	12	—	—	—
—	3	9	—	6	—	—	—	—	—	—	—
25 712	13 731	114 761	13 225	49 446	1 970	8 260	265	19 033	2 629	6 812	685
3 154	2 347	36 879	2 108	19 179	550	4 279	99	9 334	840	3 536	289
2 774	338	63 211	2 708	27 441	992	3 308	118	6 172	227	2 177	129
623	31	10 428	2 280	641	33	646	5	955	68	590	16
1 423	33	1 753	2 807	7 489	188	1 865	78	3 260	45	451	61
1 612	176	26 402	1 107	7 489	188	1 865	78	3 260	45	451	61
—	—	24	—	1 933	57	207	—	14	86	917	29
—	—	112	—	6	—	79	—	172	12	—	—
26	—	1 401	93	56	—	—	—	—	—	55	—
22	—	2 556	42	389	3	102	133	133	—	15	—
26	8	1 307	16	12 162	399	125	14	41	—	21	—
15	7	89	4	39	—	17	—	—	—	17	—
33	57	103	25	51	21	—	11	10	10	7	—
244	12	11 397	2 278	4 416	211	228	—	763	41	179	7
20	14	108	22	93	9	26	—	17	6	6	—
—	—	212	15	226	8	5	—	22	—	92	13
—	—	69	9	62	—	2	—	7	—	—	—
—	—	14	9	63	2	—	—	—	—	92	13
—	—	—	—	64	—	—	—	—	—	—	—
—	—	72	6	37	6	3	—	15	—	—	—
28	18	942	427	666	287	13	13	27	14	159	100
10	—	170	87	65	54	6	6	4	4	57	53
—	—	—	—	—	—	—	—	2	2	—	—
—	—	647	275	441	179	—	—	14	8	102	47
—	—	—	—	—	—	—	—	—	—	—	—
9	9	—	27	12	—	7	—	—	—	—	—
9	9	33	38	141	54	—	—	—	—	—	—
—	—	92	—	—	—	—	—	—	—	—	—
13 114	10 384	5 114	2 690	699	83	222	26	1 726	1 195	218	58
240	82	355	39	367	32	96	26	46	22	157	51
22	—	697	25	32	—	27	—	93	8	6	—
9	2	44	—	66	—	—	—	63	13	—	—
—	—	8	—	8	8	—	—	—	—	—	—
—	—	5	—	—	—	—	—	—	—	—	—
—	—	3 375	2 545	13	36	63	26	1 457	1 143	18	—
12 789	10 285	630	81	125	7	36	—	67	9	37	7
15	—	—	—	—	—	—	—	—	—	—	—
25	6	169	52	50	2	11	—	22	7	3	—
14	6	119	52	42	—	7	—	7	—	—	—
11	—	22	—	6	—	—	—	15	—	—	—
—	—	68	—	—	—	—	—	—	—	—	—
—	—	5	—	2	—	4	—	—	—	—	—
—	—	28	—	—	—	—	—	—	—	—	—
1 144	412	7 066	1 152	568	25	257	7	1 006	304	184	29
1 125	403	6 981	1 152	542	25	257	7	999	304	184	—
19	9	25	—	26	—	—	—	7	—	—	—

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Construction trades—Con.

Construction trades, except supervisors—Con.

Carpenters

Plasterers

Plumbers, pipefitters, and steamfitters

Concrete and terrazzo finishers

Glaziers

Insulation workers

Paving, surfacing, and tamping equipment operators

Roofers

Sheetmetal duct installers

Structural metal workers

Drillers, earth

Construction trades, n.e.c.

Extractive occupations

Supervisors, extractive occupations

Drillers, oil well

Explosives workers

Mining machine operators

Mining occupations, n.e.c.

Precision production occupations

Supervisors, production occupations

Precision metalworking occupations

Tool and die makers

Precision assemblers, metal

Machinists

Boilermakers

Precision grinders, filers, and tool sharpeners

Patternmakers and model makers, metal

Lay-out workers

Engravers, metal

Sheet metal workers

Miscellaneous precision metal workers

Precision woodworking occupations

Patternmakers and model makers, wood

Cabinet makers and bench carpenters

Furniture and wood finishers

Miscellaneous precision woodworkers

Precision textile, apparel, and furnishings machine workers

Dressmakers

Tailors

Upholsterers

Shoe repairers

Apparel and fabric patternmakers

Miscellaneous precision apparel and fabric workers

Precision workers, assorted materials

Hand molders and shapers, except jewelers

Patternmakers, lay-out workers, and cutters

Optical goods workers

Dental laboratory and medical appliance technicians

Bookbinders

Electrical and electronic equipment assemblers

Miscellaneous precision workers, n.e.c.

Precision food production occupations

Butchers and meat cutters

Food batchmakers

Food inspectors, testers, and related workers

Inspectors, testers, and graders

Adjusters and calibrators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

Manufacturing, durable goods—Con															
Electrical machinery, equipment, and supplies—Con		Transportation equipment													
		Motor vehicles and motor vehicle equipment		Aircraft and parts		Ship and boat building and repairing		Railroad locomotives and equipment		Guided missiles, space vehicles, and parts		Cycles and miscellaneous transportation equipment			
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States	Not specified electrical machinery, equipment, and supplies	523	36	2 112	69	1 228	73	617	23	165	2	667	42	121	7
	Precision production, craft, and repair occupations—Con.	9	—	64	—	21	—	75	—	25	—	12	—	6	—
	Plant and system operators	—	—	171	3	88	—	474	12	133	2	623	42	115	7
	Water and sewage treatment plant operators	501	36	1 786	36	1 071	73	474	12	133	2	623	42	115	7
	Power plant operators	13	—	91	—	48	—	68	11	7	—	32	—	—	—
	Stationary engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Miscellaneous plant and system operators	50 471	33 861	609 444	123 101	162 403	35 963	89 482	7 439	35 203	2 026	25 142	7 530	29 938	6 602
	Operators, fabricators, and laborers	45 798	32 026	519 120	112 457	147 477	33 725	69 094	5 664	28 084	1 704	22 406	7 067	24 868	5 852
	Machinists, millwrights, and inspectors	12 405	7 056	194 390	37 665	74 633	13 965	18 443	2 384	9 190	707	8 626	2 054	9 272	2 143
	Metalworking and plastic working machine operators	2 008	740	79 586	11 193	29 055	4 350	3 676	332	3 295	180	2 482	389	2 841	558
Employed persons 16 years and over—Con.	Metalworking and plastic working machine operators	269	56	8 128	256	1 145	55	89	12	180	11	135	23	235	—
	Lathe and turning machine operators	314	89	7 450	466	5 995	377	668	59	433	19	691	97	262	24
	Lathe and turning machine operators	44	7	7 442	58	2 245	118	87	—	186	—	187	—	77	14
	Milling and planing machine operators	623	275	24 631	6 877	2 981	544	289	47	659	15	168	3	796	267
	Punching and stamping press machine operators	17	2	4 427	79	83	7	37	16	23	—	24	—	26	11
	Rolling machine operators	153	68	4 553	760	3 186	619	303	28	374	49	294	64	324	49
	Drilling and boring machine operators	489	199	23 367	2 363	11 471	2 488	1 993	162	1 227	57	870	196	927	151
	Grinding, abrading, buffing, and polishing machine operators	18	6	1 014	42	475	19	92	8	78	—	38	—	37	15
	Forging machine operators	6	—	117	—	576	17	42	—	21	—	13	—	22	9
	Numerical control machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Precision production, craft, and repair occupations—Con.	Miscellaneous metal, plastic, stone, and glass working machine operators	75	38	9 257	292	898	106	76	—	114	29	62	6	135	18
	Fabricating machine operators, n.e.c.	104	71	2 039	639	2 786	517	182	8	243	14	123	14	161	74
	Metal and plastic processing machine operators	690	216	7 509	1 194	3 886	314	2 341	106	513	21	502	77	348	60
	Molding and casting machine operators	260	86	4 063	905	636	115	394	44	136	12	121	20	108	46
	Metal planing machine operators	370	104	1 199	179	1 357	92	83	10	35	—	215	33	118	7
	Heat treating equipment operators	35	12	1 698	82	1 191	38	31	—	138	9	148	24	84	5
	Miscellaneous metal and plastic processing machine operators	25	14	549	28	702	69	1 833	52	204	—	18	—	38	2
	Woodworking machine operators	46	13	854	173	673	42	618	19	51	—	45	5	173	16
	Wood lathe, routing, and planing machine operators	14	2	410	42	530	35	56	7	—	—	—	—	6	—
	Sawing machine operators	26	5	258	118	24	—	37	4	39	—	33	5	147	10
Manufacturing, durable goods—Con	Shaping and jointing machine operators	—	—	29	—	6	—	22	11	1	—	—	—	4	—
	Nailing and tacking machine operators	6	6	134	—	101	7	496	4	6	—	12	—	16	—
	Miscellaneous woodworking machine operators	286	185	704	177	889	352	135	53	58	6	508	152	51	28
	Printing machine operators	264	172	500	102	646	223	109	42	16	6	411	98	45	22
	Photogravers and lithographers	9	—	17	11	71	15	4	—	—	—	23	—	—	—
	Typesetters and compositors	13	13	53	27	139	106	7	—	—	—	50	45	6	6
	Miscellaneous printing machine operators	—	—	134	37	33	8	15	7	42	—	24	9	—	—
	Textile, apparel, and furnishings machine operators	97	61	4 920	4 004	744	526	1 709	659	86	29	367	296	245	189
	Winding and twisting machine operators	14	14	64	6	9	—	51	4	15	—	—	—	8	—
	Manufacturing, durable goods—Con	Knitting, looping, taping, and weaving machine operators	10	—	25	17	7	—	—	—	8	—	—	—	—
Textile cutting machine operators		—	—	11	—	16	—	—	—	—	—	—	—	—	—
Textile sewing machine operators		46	23	4 420	3 795	452	392	357	311	23	23	270	244	171	162
Shoe machine operators		—	—	34	2	3	3	—	—	—	—	—	—	6	6
Pressing machine operators		—	—	15	—	12	—	—	—	—	—	—	—	9	7
Laundry and dry cleaning machine operators		3	—	76	30	—	—	5	—	6	6	7	7	—	—
Miscellaneous textile machine operators		24	24	275	152	245	131	1 296	344	34	45	90	45	51	14
Machine operators, assorted materials		9 174	5 770	98 778	20 285	36 600	7 864	9 782	1 207	4 944	457	4 599	1 121	5 453	1 218
Cementing and gluing machine operators		111	102	1 189	534	147	86	86	26	14	5	72	25	34	19
Packaging and filling machine operators		57	33	471	231	96	42	74	10	17	5	6	5	10	—
Manufacturing, durable goods—Con	Extruding and forming machine operators	19	14	319	54	143	13	76	5	52	—	158	21	44	—
	Mixing and blending machine operators	102	67	1 229	67	472	76	39	4	2	—	36	7	—	—
	Separating, filtering, and clarifying machine operators	20	9	183	47	133	35	9	—	15	—	—	—	32	12
	Compressing and compacting machine operators	64	64	356	76	70	37	73	14	626	13	393	48	737	78
	Painting and point spraying machine operators	484	210	12 201	1 139	4 006	504	1 269	82	—	—	—	—	—	—
	Roasting and baking machine operators, food	—	—	46	—	37	2	11	—	8	—	—	—	12	6
	Washing, cleaning, and picking machine operators	—	—	213	17	—	—	—	—	—	—	—	—	—	—
	Washing, cleaning, and picking machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Washing, cleaning, and picking machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Washing, cleaning, and picking machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con															
Electrical machinery, equipment, and supplies—Con.				Transportation equipment											
Not specified electrical machinery, equipment, and supplies				Motor vehicles and motor vehicle equipment		Aircraft and parts		Ship and boat building and repairing		Railroad locomotives and equipment		Guided missiles, space vehicles, and parts		Cycles and miscellaneous transportation equipment	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.															
3 252	1 501	38 337	7 812	8 481	1 857	12 026	1 500	3 749	229	1 376	303	2 834	572		
13	—	81	—	30	—	36	—	—	—	9	—	7	—		
—	—	164	35	82	5	209	20	25	—	23	—	1	—		
37	6	163	29	142	30	1 142	114	57	—	8	—	32	5		
37	6	156	29	142	30	1 142	114	57	—	8	—	32	5		
—	—	7	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
20	8	350	13	199	33	401	13	31	—	25	5	52	—		
174	36	1 076	193	679	171	1 500	188	553	30	90	34	115	13		
882	366	7 863	933	1 049	139	893	46	257	—	225	91	423	49		
6	—	68	8	6	—	6	—	—	—	—	—	19	—		
—	—	—	—	—	—	152	—	—	—	—	—	—	—		
238	82	3 734	430	346	38	120	18	31	—	89	41	108	4		
468	187	585	213	136	28	98	20	17	—	41	29	48	11		
170	91	3 476	282	561	67	517	8	209	—	95	21	248	34		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
7	7	347	24	71	7	53	8	—	—	20	—	9	—		
26	11	2 675	290	466	80	725	58	172	11	7	—	68	13		
732	489	6 316	3 207	1 645	584	236	88	290	89	184	7	446	219		
1 361	578	19 302	3 088	4 118	808	6 831	965	2 364	99	785	106	1 681	273		

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers.
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Sweepests
 Stock handlers and baggers
 Machine feeders and offbearers
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

[illegible]

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

	Manufacturing, durable goods—Con.									
	Professional and photographic equipment, and watches					Miscellaneous manufacturing industries				
	Scientific and controlling instruments	Optical and health services supplies	Photographic equipment and supplies	Watches, clocks, and clockwork operated devices	Not specified professional equipment	Total	Toys, amusement, and sporting goods	Total	Female	Not specified manufacturing industries
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Managerial and professional specialty occupations—Con.										
Professional specialty occupations—Con.										
Natural scientists	822	98	1 737	565	226	27	139	597	120	337
Physicists and astronomers	187	—	207	17	6	—	8	34	8	21
Chemists, except biochemists	482	72	1 039	328	192	27	114	453	96	268
Atmospheric and space scientists	12	—	—	—	—	—	—	15	—	8
Geologists and geodesists	55	5	—	—	—	—	—	—	—	6
Physical scientists, n.e.c.	11	—	21	—	—	—	—	—	—	—
Agricultural and food scientists	9	—	4	—	—	—	7	20	7	—
Biological and life scientists	61	21	409	196	28	—	9	39	9	3
Forestry and conservation scientists	—	—	—	—	—	—	1	8	—	—
Medical scientists	5	—	55	24	17	—	—	—	—	—
Health diagnosing occupations	12	2	265	59	—	—	—	6	—	—
Physicians	6	2	120	32	44	7	—	6	—	2
Dentists	14	—	73	14	—	—	—	—	—	13
Veterinarians	—	—	17	13	—	—	—	—	—	—
Optometrists	2	—	51	—	—	—	—	—	—	—
Podiatrists	4	—	—	—	—	—	—	—	—	—
Health diagnosing practitioners, n.e.c.	—	—	4	—	—	—	—	—	—	—
Health assessment and treating occupations	189	182	338	291	150	11	204	155	130	165
Registered nurses	175	168	262	242	123	11	193	135	119	125
Pharmacists	—	—	5	5	—	—	—	—	—	17
Dietitians	—	—	55	33	7	—	—	14	5	7
Therapists	14	14	16	11	—	—	6	6	6	16
Physicians' assistants	—	—	—	—	—	—	—	—	—	—
Teachers, postsecondary	20	7	169	44	27	6	3	4	—	3
Teachers, except postsecondary	314	96	—	—	—	—	187	204	105	299
Teachers, prekindergarten and kindergarten	—	—	—	—	—	—	5	5	—	—
Teachers, elementary and secondary school	—	—	—	—	—	—	—	—	—	—
Teachers, special education	29	—	—	—	—	—	—	—	—	—
Teachers, n.e.c.	285	96	169	44	27	28	25	14	14	30
Counselors, educational and vocational	8	—	39	6	—	—	289	185	86	269
Librarians, archivists, and curators	50	44	42	36	116	6	29	21	21	72
Archivists and curators	50	44	36	36	109	6	42	37	24	5
Social scientists and urban planners	881	148	541	173	145	20	5	—	—	—
Economists	846	148	521	173	600	20	590	461	133	298
Psychologists	21	—	13	—	139	—	574	445	165	275
Sociologists	14	—	—	—	6	—	1	7	1	11
Social scientists, n.e.c.	—	—	—	—	—	—	—	—	—	—
Urban planners	—	—	—	—	—	—	—	—	—	—
Social, recreation, and religious workers	7	—	7	—	—	—	8	8	—	—
Social workers	7	—	22	6	14	14	73	59	48	118
Recreation workers	—	—	6	—	—	—	40	40	35	93
Clergy	—	—	16	—	5	—	12	6	2	8
Religious workers, n.e.c.	—	—	—	—	—	—	—	—	—	—
Lawyers and judges	135	14	207	12	14	16	21	13	13	17
Lower judges	135	14	207	12	14	16	194	166	23	126
Writers, artists, entertainers, and athletes	2 872	647	1 629	406	603	165	3 593	6 694	2 617	1 490
Authors	19	5	—	—	8	41	25	25	17	13
Technical writers	777	195	272	88	361	—	143	103	21	104
Designers	1 310	147	797	116	994	128	5 700	4 362	1 594	773
Musicians and composers	—	—	15	—	8	—	72	66	31	16
Actors and directors	6	—	12	6	18	—	8	8	8	—
Painters, sculptors, craft-artists, and artist printmakers	196	91	158	82	69	2	1 805	1 460	616	192
Photographers	128	42	83	9	64	—	137	117	18	41
Dancers	—	—	—	—	—	—	—	—	—	—
Artists, performers, and related workers, n.e.c.	25	23	3	—	27	—	144	121	50	57
Editors and reporters	204	108	113	34	243	14	171	125	64	43
Public relations specialists	207	38	185	68	170	16	441	307	206	207
Announcers	—	—	—	—	9	—	—	—	—	—
Athletes	—	—	6	—	—	—	32	—	—	6

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.																
	Professional and photographic equipment, and watches										Miscellaneous manufacturing industries				Not specified manufacturing industries	
	Scientific and controlling instruments		Optical and health services supplies		Photographic equipment and supplies		Watches, clocks, and clockwork operated devices		Not specified professional equipment							
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.																
Technical, sales, and administrative support occupations	62 595	32 270	71 342	41 080	41 158	19 810	5 650	3 598	294	160	110 908	65 287	87 208	50 467	52 487	26 962
Technicians and related support occupations	19 142	3 606	16 747	5 090	11 699	2 051	588	171	59	27	7 357	1 446	5 902	1 134	4 331	943
Health technologists and technicians	170	116	2 462	591	112	56	18	13	10	10	64	60	47	43	69	41
Clinical laboratory technologists and technicians	76	53	432	242	54	43	—	—	—	—	14	14	14	14	22	12
Dental hygienists	6	—	32	14	—	—	—	—	—	—	—	—	—	—	—	—
Health record technologists and technicians	—	—	14	14	—	—	—	—	—	—	—	—	—	—	8	8
Radiologic technicians	6	6	26	21	12	—	—	—	—	—	14	14	14	14	—	—
Licensed practical nurses	35	25	22	15	22	8	6	6	10	10	22	22	15	15	—	—
Health technologists and technicians, n.e.c.	42	22	1 936	285	24	5	12	7	—	—	14	10	4	—	39	21
Engineering and related technologists and technicians	13 217	2 218	8 873	2 655	5 826	859	379	74	37	12	4 536	780	3 790	632	2 567	520
Electrical and electronic technicians	6 667	758	2 677	213	1 846	171	112	14	9	6	969	126	675	75	969	94
Industrial engineering technicians	2	—	53	6	24	14	8	—	5	—	95	10	79	4	13	7
Mechanical engineering technicians	20	19	183	22	167	58	—	—	—	—	51	—	—	—	61	—
Engineering technicians, n.e.c.	2 187	656	4 040	2 112	2 306	576	87	26	—	—	1 472	401	1 331	361	785	262
Drafting occupations	4 078	783	1 899	302	1 281	87	166	34	28	6	1 930	238	1 647	192	1 179	150
Surveying and mapping technicians	14	—	21	—	2	—	—	—	—	—	12	5	7	—	2	—
Science technicians	894	319	1 279	669	1 498	384	46	39	7	—	564	157	434	117	198	53
Biological technicians	29	14	89	36	—	—	—	—	7	—	49	2	22	2	9	—
Chemical technicians	206	102	271	147	773	184	8	8	—	—	112	41	91	28	84	26
Science technicians, n.e.c.	659	203	919	486	725	200	38	31	—	—	403	114	321	87	105	27
Technicians, except health, engineering, and science	4 861	953	4 133	1 175	4 263	752	145	45	5	5	2 193	449	1 631	342	1 517	329
Airplane pilots and navigators	49	—	51	—	24	—	—	—	—	—	44	—	38	—	50	—
Air traffic controllers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators	18	6	—	—	56	—	—	—	—	—	30	4	30	4	12	7
Computer programmers	2 029	457	1 137	325	1 242	376	83	19	—	—	972	251	682	165	472	147
Tool programmers, numerical control	84	24	46	6	66	6	6	6	—	—	47	12	41	12	4	4
Legal assistants	33	33	23	23	38	5	58	20	—	—	58	58	48	9	9	9
Technicians, n.e.c.	2 648	433	2 876	821	2 837	365	56	20	5	5	1 042	124	792	113	1 006	162
Sales occupations	5 551	721	11 806	2 505	4 593	993	686	143	81	—	26 147	5 777	21 573	4 357	14 572	2 547
Supervisors and proprietors, sales occupations	577	78	903	159	564	72	110	18	6	—	2 429	547	1 833	309	1 102	309
Salaried sales occupations	562	78	861	159	564	72	110	18	6	—	1 723	341	1 264	202	861	274
Self-employed sales occupations	15	—	42	—	4	—	4	6	—	—	706	206	569	121	241	35
Sales representatives, finance and business services	30	13	25	20	25	—	6	—	—	—	691	185	676	183	90	18
Insurance sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Real estate sales occupations	6	—	3	—	—	—	—	—	—	—	14	6	14	6	36	11
Securities and financial services sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Advertising and related sales occupations	24	13	22	20	25	—	6	6	—	—	677	179	662	177	54	7
Sales occupations, other business services	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	4 723	511	10 685	2 188	3 794	787	551	106	69	—	22 107	4 452	18 384	3 414	12 801	1 887
Sales engineers	917	23	140	—	57	—	47	—	5	—	411	12	405	12	476	—
Sales representatives, mining, manufacturing, and wholesale	3 806	488	10 545	2 188	3 737	787	504	106	64	—	21 696	4 440	17 979	3 402	12 325	1 887
Sales workers, retail and personal services	206	119	168	132	198	122	15	13	—	—	834	530	614	388	513	284
Sales workers, commodities	65	21	16	12	31	6	8	6	—	—	101	6	71	6	91	2
Sales counter clerks	6	6	13	7	18	—	—	—	—	—	25	10	15	—	25	8
Cashiers	84	66	44	44	123	109	7	7	—	—	455	372	314	262	238	211
Street and door-to-door sales workers	51	26	93	69	12	7	—	—	—	—	216	122	182	100	127	56
News vendors	—	—	2	—	14	—	—	—	—	—	37	20	32	20	32	7
Sales related occupations	15	—	25	6	12	12	—	—	6	—	86	63	66	49	66	49
Demonstrators, promoters and models, sales	15	—	13	6	6	6	—	—	—	—	43	37	26	26	49	49
Auctioneers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales support occupations, n.e.c.	—	—	12	6	6	6	—	—	6	—	43	26	40	23	17	—
Administrative support occupations, including clerical	37 902	27 943	42 789	33 485	24 866	16 766	4 376	3 284	154	133	77 404	58 064	59 733	44 976	33 564	23 472
Supervisors, administrative support occupations	2 254	987	2 718	1 287	1 637	551	294	167	13	5	4 852	2 252	3 713	1 714	2 252	720
Supervisors, general office	874	533	1 184	769	763	311	92	67	—	—	2 229	1 369	1 691	1 103	901	465
Supervisors, computer equipment operators	185	54	94	28	157	26	24	39	—	—	86	59	133	40	22	—
Supervisors, financial records processing	461	227	551	277	244	97	96	64	—	—	897	504	580	325	276	129
Chief communications operators	13	7	46	7	10	—	—	—	—	—	14	14	14	14	5	5
Supervisors, distribution, scheduling, and adjusting clerks	721	166	882	206	163	117	82	36	12	5	1 546	306	1 217	232	543	121
Computer equipment operators	1 563	877	1 442	987	1 068	608	110	47	13	12	2 373	1 414	1 742	1 214	1 543	457
Computer operators	1 507	825	1 312	887	1 024	602	105	47	12	12	2 230	1 548	1 618	1 134	416	416
Peripheral equipment operators	56	52	130	100	44	6	5	—	—	—	143	99	124	80	80	41

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.												
	Professional and photographic equipment, and watches						Miscellaneous manufacturing industries					
	Scientific and controlling instruments		Optical and health services supplies		Photographic equipment and supplies		Watches, clocks, and clockwork operated devices		Not specified professional equipment		Toys, amusement, and sporting goods	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations—Con.												
Administrative support occupations, including clerical—Con												
Secretaries	10 345	10 226	11 749	11 636	6 698	6 639	991	986	71	71	19 308	19 073
Stenographers	8 999	8 897	10 299	10 210	6 071	6 020	803	803	71	71	16 935	16 743
Typists	1 283	1 266	1 386	1 373	578	578	183	178	—	—	2 319	2 276
Information clerks	661	637	1 328	1 282	310	259	88	88	8	8	1 933	1 846
Interviewers	32	29	97	97	51	51	4	4	—	—	333	298
Hotel clerks	—	—	—	—	—	—	—	—	—	—	—	—
Transportation ticket and reservation agents	7	7	18	18	39	39	—	—	—	—	42	23
Receptionists	571	568	1 040	1 047	189	178	84	84	8	8	1 351	1 346
Information clerks, n.e.c.	51	33	153	120	31	12	—	—	—	—	207	179
Records processing occupations, except financial	2 259	1 783	3 350	2 760	1 301	752	291	234	—	—	4 930	3 869
Classified-ad clerks	8	—	45	45	22	—	—	—	—	—	54	47
Correspondence clerks	141	102	58	58	7	7	21	16	—	—	36	12
Order clerks	850	666	1 403	1 142	460	315	149	117	—	—	157	131
Personnel clerks, except payroll and timekeeping	189	173	175	167	70	70	11	11	—	—	2 837	2 237
Library clerks	31	31	46	46	25	14	—	—	—	—	211	183
File clerks	947	731	1 493	1 217	648	300	105	85	—	—	1 515	1 147
Records clerks	93	80	130	85	69	46	5	5	—	—	1 141	109
Financial records processing occupations	4 097	3 657	5 207	4 796	2 174	1 808	589	514	18	18	12 861	11 854
Bookkeepers, accounting, and auditing clerks	3 133	2 810	3 934	3 623	1 423	1 230	413	372	18	18	10 152	9 388
Payroll and timekeeping clerks	437	392	506	488	322	234	115	88	—	—	253	153
Billing clerks	329	292	551	527	272	252	42	35	—	—	1 105	1 066
Cost and rate clerks	152	122	114	88	132	81	19	19	—	—	292	188
Billing, posting, and calculating machine operators	46	41	66	46	25	11	—	—	—	—	59	59
Duplicating, mail, and other office machine operators	196	164	148	96	488	317	—	—	—	—	204	122
Duplicating machine operators	94	87	42	22	180	86	—	—	—	—	49	28
Mail preparing and paper handling machine operators	13	6	16	16	7	7	—	—	—	—	10	10
Office machine operators, n.e.c.	89	71	90	58	301	224	—	—	—	—	138	84
Communications equipment operators	369	353	249	242	137	123	31	31	—	—	502	477
Telephone operators	348	332	249	242	136	122	31	31	—	—	495	477
Telegraphers	14	14	—	—	1	1	—	—	—	—	—	—
Communications equipment operators, n.e.c.	7	—	—	—	—	—	—	—	—	—	7	—
Mail and message distributing occupations	340	191	740	491	406	229	71	30	—	—	1 024	546
Postal clerks, except mail carriers	—	—	—	—	—	—	—	—	—	—	—	—
Mail carriers, postal service	277	191	638	437	316	198	65	30	—	—	810	499
Mail clerks, except postal service	63	—	102	54	90	31	6	—	—	—	214	47
Messengers	—	—	—	—	—	—	—	—	—	—	189	37
Material recording, scheduling, and distributing clerks	9 757	4 241	9 178	4 191	5 511	1 834	1 145	556	24	19	18 003	6 869
Dispatchers	63	39	47	39	110	50	24	24	—	—	102	52
Production coordinators	2 406	1 227	1 635	935	1 768	694	241	135	5	—	2 468	1 811
Traffic, shipping, and receiving clerks	2 567	697	3 523	1 170	1 066	290	502	194	12	12	9 412	2 735
Stock and inventory clerks	3 446	1 628	3 121	1 362	1 786	524	255	95	7	7	4 172	1 696
Meter readers	—	—	—	—	—	—	—	—	—	—	—	—
Weights, measurers, and checkers	96	28	162	105	96	21	14	10	—	—	451	233
Samplers	11	11	6	6	—	—	—	—	—	—	—	—
Expeditors	1 023	530	592	303	629	234	95	92	—	—	1 283	732
Material recording, scheduling, and distributing clerks, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Adjusters and investigators	145	81	92	51	56	21	14	6	—	—	115	56
Insurance adjusters, examiners, and investigators	640	396	839	588	736	382	125	55	8	—	986	705
Investigators and adjusters, except insurance	—	—	—	—	—	—	—	—	—	—	—	—
Eligibility clerks, social welfare	557	338	670	427	678	355	119	49	8	—	794	591
Bill and account collectors	83	58	159	151	58	27	6	6	—	—	192	114
Miscellaneous administrative support occupations	5 421	4 431	5 841	5 129	4 400	3 264	641	576	—	—	10 428	8 804
General office clerks	2 676	2 339	3 149	2 742	2 130	1 791	375	321	—	—	7 286	6 199
Bank tellers	—	—	—	—	—	—	—	—	—	—	—	—
Proofreaders	23	17	15	15	14	—	—	—	—	—	113	92
Data-entry keyers	1 500	1 425	1 350	924	845	237	216	205	—	—	1 883	1 811
Statistical clerks	214	130	455	407	360	237	21	21	—	—	281	217
Teachers' aides	—	—	—	—	—	—	—	—	—	—	9	6
Administrative support occupations, n.e.c.	1 008	520	872	664	972	391	29	29	—	—	856	479

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.
 Administrative support occupations, including clerical—Con.
 Secretaries, stenographers, and typists—
 Stenographers—
 Typists—
 Information clerks—
 Interviewers—
 Hotel clerks—
 Transportation ticket and reservation agents—
 Receptionists—
 Information clerks, n.e.c.—
 Records processing occupations, except financial—
 Classified-ad clerks—
 Correspondence clerks—
 Order clerks—
 Personnel clerks, except payroll and timekeeping—
 Library clerks—
 File clerks—
 Records clerks—
 Financial records processing occupations—
 Bookkeepers, accounting, and auditing clerks—
 Payroll and timekeeping clerks—
 Billing clerks—
 Cost and rate clerks—
 Billing, posting, and calculating machine operators—
 Duplicating, mail, and other office machine operators—
 Duplicating machine operators—
 Mail preparing and paper handling machine operators—
 Office machine operators, n.e.c.—
 Communications equipment operators—
 Telephone operators—
 Telegraphers—
 Communications equipment operators, n.e.c.—
 Mail and message distributing occupations—
 Postal clerks, except mail carriers—
 Mail carriers, postal service—
 Mail clerks, except postal service—
 Messengers—
 Material recording, scheduling, and distributing clerks—
 Dispatchers—
 Production coordinators—
 Traffic, shipping, and receiving clerks—
 Stock and inventory clerks—
 Meter readers—
 Weighers, measurers, and checkers—
 Samplers—
 Expeditors—
 Material recording, scheduling, and distributing clerks, n.e.c.—
 Adjusters and investigators—
 Insurance adjusters, claim examiners, and investigators—
 Investigators and adjusters, except insurance—
 Eligibility clerks, social welfare—
 Bill and account collectors—
 Miscellaneous administrative support occupations—
 General office clerks—
 Bank tellers—
 Proofreaders—
 Data-entry keyers—
 Statistical clerks—
 Teachers' aides—
 Administrative support occupations, n.e.c.—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Manufacturing, durable goods—Con.									
	Professional and photographic equipment, and watches					Miscellaneous manufacturing industries				
	Scientific and controlling instruments	Optical and health services supplies	Photographic equipment and supplies	Watches, clocks, and clockwork operated devices	Not specified professional equipment	Total	Total	Toys, amusement, and sporting goods	Total	Not specified manufacturing industries
	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
	Female	Female	Female	Female	Female	Female	Female	Female	Female	Female
Service occupations	3 460	717	4 115	1 075	3 608	657	423	69	127	88
Private household occupations	647	71	703	128	878	102	108	9	6	—
Protective service occupations	42	12	29	17	39	—	—	—	—	—
Supervisors, protective service occupations	—	—	—	—	—	—	—	—	—	—
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	42	12	29	17	39	—	—	—	—	—
Supervisors, guards	18	6	37	13	76	—	18	—	—	—
Firefighting and fire prevention occupations	12	—	24	13	17	—	6	—	—	—
Fire inspection and fire prevention occupations	—	—	13	—	59	—	12	—	—	—
Firefighting occupations	—	—	—	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—
Guards	587	59	637	98	763	102	90	9	6	—
Crossing guards	—	—	—	—	—	—	—	—	—	—
Guards and police, except public service	587	59	637	98	757	102	90	9	6	—
Protective service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—
Service occupations, except protective and household	2 813	646	3 412	947	2 730	555	315	60	121	88
Food preparation and service occupations	149	136	170	119	433	270	14	9	44	38
Supervisors, food preparation and service occupations	12	12	14	14	11	5	—	—	—	—
Barbers	—	—	6	—	—	—	—	—	—	—
Waiters and waitresses	11	11	7	7	44	39	—	—	—	—
Cooks, except short order	45	45	72	37	75	28	12	7	22	17
Short-order cooks	—	—	—	—	—	—	—	—	—	—
Food counter, fountain and related occupations	9	5	6	6	8	8	—	—	—	—
Kitchen workers, food preparation	15	15	7	7	104	5	—	—	—	—
Waiters and waitresses, assistants	57	48	58	48	186	114	2	2	5	5
Miscellaneous food preparation occupations	36	31	290	132	29	16	9	9	51	46
Health service occupations	—	—	—	—	—	—	—	—	—	—
Dental assistants	—	—	—	—	—	—	—	—	—	—
Health aides, except nursing	5	—	81	24	7	—	—	—	—	—
Nursing aides, orderlies, and attendants	31	31	149	65	22	16	9	9	51	46
Cleaning and building service occupations, except household	2 515	418	2 894	672	2 210	240	285	42	26	4
Supervisors, cleaning and building service workers	20	2	116	29	52	—	6	—	—	—
Maid and housemen	151	50	188	45	232	14	29	6	—	—
Janitors and cleaners	2 331	359	2 590	598	1 907	226	250	36	26	4
Elevator operators	13	7	—	—	19	—	—	—	—	—
Pest control occupations	—	—	—	—	—	—	—	—	—	—
Personal service occupations	113	61	58	24	58	29	7	—	—	—
Supervisors, personal service occupations	—	—	—	—	—	—	—	—	—	—
Barbers	—	—	—	—	—	—	—	—	—	—
Hairdressers and cosmetologists	4	—	—	—	—	—	—	—	—	—
Attendants, amusement and recreation facilities	12	6	—	—	9	—	—	—	—	—
Guides	7	—	13	—	14	—	—	—	—	—
Ushers	6	—	7	—	6	—	—	—	—	—
Public transportation attendants	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	—	—	—	—	—	—	—
Welfare service aides	—	—	—	—	—	—	—	—	—	—
Child care workers, except private household	13	13	7	7	—	—	—	—	—	—
Personal service occupations, n.e.c.	71	42	31	17	29	29	7	—	—	—
Farming, forestry, and fishing occupations	156	49	91	8	87	14	14	8	—	—
Farm operators and managers	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	53	24	6	6	82	9	14	8	—	—
Related agricultural occupations	61	7	76	2	2	—	—	—	—	—
Supervisors, related agricultural occupations	—	—	—	—	—	—	—	—	—	—
Groundskeepers and gardeners, except farm	51	7	54	2	80	9	14	8	—	—
Animal caretakers, except farm	4	—	20	—	—	—	—	—	—	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	6	—	2	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.																	
	Professional and photographic equipment, and watches						Miscellaneous manufacturing industries				Not specified manufacturing industries						
	Scientific and controlling instruments		Optical and health services supplies		Photographic equipment and supplies		Watches, clocks, and clockwork operated devices		Not specified professional equipment				Total		Toys, amusement, and sporting goods		
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female			Total	Female	Total	Female	
Employed persons 16 years and over—Con																	
Farming, forestry, and fishing occupations—Con																	
Forestry and logging occupations	6	6	9	—	5	5	—	—	—	—	48	16	35	11	54	31	
Supervisors, forestry and logging workers	—	—	9	—	—	—	—	—	—	—	—	—	—	—	—	—	
Forestry workers, except logging	6	6	—	—	—	—	—	—	—	—	22	7	12	2	25	16	
Timber cutting and logging occupations	36	12	—	—	5	5	—	—	—	—	26	9	23	9	29	15	
Fishers, hunters, and trappers	8	—	—	—	—	—	—	—	—	—	14	2	6	—	2	—	
Captains and other officers, fishing vessels	—	—	—	—	—	—	—	—	—	—	8	2	—	—	—	—	
Fishers	28	12	—	—	—	—	—	—	—	—	—	—	6	—	—	—	
Hunters and trappers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Precision production, craft, and repair occupations																	
Mechanics and repairers	37 826	9 207	44 226	12 434	24 782	2 355	7 723	3 337	249	8	103 079	24 400	85 754	19 603	35 845	5 971	
Supervisors, mechanics and repairers	7 234	1 160	6 754	840	8 367	625	2 338	889	38	—	15 307	1 934	11 509	1 518	7 020	604	
Mechanics and repairers, except supervisors	183	6	144	5	174	18	20	176	—	—	244	139	176	—	139	9	
Vehicle and mobile equipment mechanics and repairers	7 051	1 154	6 610	835	8 193	607	2 318	889	38	—	15 063	1 934	11 333	1 518	6 881	595	
Automobile mechanics	274	42	136	27	279	636	21	444	12	—	636	21	444	12	47	—	
Bus, truck, and stationary engine mechanics	123	12	50	7	147	3	2	3	10	—	356	9	259	—	577	38	
Aircraft engine mechanics	7	—	—	—	—	—	—	—	—	—	27	—	—	—	—	—	
Small engine mechanics	81	25	20	5	12	—	—	—	—	—	6	—	—	—	20	—	
Automobile body and related repairers	3	—	—	—	—	—	—	—	—	—	17	—	16	—	19	—	
Aircraft mechanics, except engine	17	—	15	15	16	—	—	—	—	—	49	—	23	—	17	9	
Heavy equipment mechanics	12	—	40	—	98	—	—	—	—	—	152	12	86	12	82	—	
Farm equipment mechanics	5	5	11	—	6	—	3	3	—	—	29	—	27	—	—	—	
Industrial machinery repairers	2 324	262	2 975	310	2 782	106	428	55	16	—	6 557	718	5 083	645	2 387	155	
Machinery maintenance occupations	51	6	49	9	43	—	14	9	—	—	232	11	186	4	181	—	
Electrical and electronic equipment repairers	962	159	356	95	559	46	32	7	—	—	504	70	368	57	337	97	
Electronic repairs, communications and industrial equipment	401	43	132	12	230	18	18	—	—	—	342	54	229	44	122	20	
Data processing equipment repairers	277	29	104	52	205	26	7	—	—	—	56	4	41	4	86	27	
Household appliance and power tool repairers	73	7	30	14	41	—	—	—	—	—	65	9	64	9	29	—	
Telephone line installers and repairers	—	—	4	—	—	—	—	—	—	—	—	—	—	—	—	—	
Telephone installers and repairers	21	—	24	6	51	2	—	—	—	—	8	—	8	—	7	—	
Miscellaneous electrical and electronic equipment repairers	190	80	62	11	32	—	7	7	—	—	33	3	26	—	93	50	
Heating, air conditioning, and refrigeration mechanics	169	—	84	—	135	—	19	—	—	—	92	2	79	2	91	2	
Miscellaneous mechanics and repairers	3 271	685	3 010	394	4 395	455	1 820	815	12	—	7 042	1 112	5 173	798	3 123	294	
Camera, watch, and musical instrument repairers	196	36	197	44	869	148	1 686	748	—	—	1 152	299	1 119	293	46	6	
Locksmiths and safe repairers	13	—	7	—	12	—	—	—	—	—	24	—	24	—	—	—	
Office machine repairers	30	6	—	—	552	31	10	10	—	—	29	5	24	5	49	—	
Mechanical controls and valve repairers	313	153	—	—	12	—	—	—	—	—	17	—	9	—	34	9	
Elevator installers and repairers	—	—	8	—	31	—	—	—	—	—	25	8	17	—	—	—	
Millwrights	311	74	309	77	574	142	12	6	7	—	589	105	460	72	614	54	
Specified mechanics and repairers, n.e.c.	1 335	244	1 498	181	1 307	100	67	46	5	—	3 327	540	2 096	332	967	135	
Not specified mechanics and repairers	1 073	172	991	92	1 038	34	38	5	—	—	1 879	155	1 424	96	1 401	90	
Construction trades																	
Supervisors, construction occupations	2 151	164	1 350	112	2 581	76	208	21	42	—	8 021	907	6 716	581	4 150	402	
Supervisors, brickmasons, stonemasons, and tile setters	116	9	77	—	122	8	—	—	11	—	206	4	172	—	150	6	
Supervisors, carpenters and related workers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Supervisors, electricians and power transmission installers	5	—	8	—	5	—	—	—	—	—	33	—	33	—	32	—	
Supervisors, plumbers, paperhangers, and plasterers	—	—	24	—	34	8	—	—	—	—	44	—	37	—	25	—	
Supervisors, painters, pipefitters, and steamfitters	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Supervisors, n.e.c.	67	9	45	—	81	—	—	—	—	—	11	—	11	—	—	—	
Construction trades, except supervisors	2 035	155	1 273	112	2 459	68	208	21	31	—	7 815	903	6 544	579	4 000	396	
Brickmasons and stonemasons	10	—	11	3	16	—	3	—	—	—	64	4	47	4	49	—	
Tile setters, hard and soft	—	—	—	—	—	—	—	—	—	—	25	7	25	7	35	—	
Carpenters	—	—	—	—	—	—	—	—	—	—	126	—	126	—	2	—	
Draywall installers	205	—	294	8	466	—	55	—	8	—	1 858	54	1 506	35	1 006	55	
Electricians	—	—	11	—	—	—	—	—	—	—	27	5	—	—	13	—	
Electrical power installers and repairers	1 082	120	647	64	1 194	47	103	5	9	—	2 100	132	1 793	115	1 249	93	
Painters, construction and maintenance	—	—	23	—	—	—	—	—	—	—	40	7	40	7	23	—	
Paperhangers	234	22	107	10	75	6	22	16	7	—	1 406	594	945	335	786	176	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States												
Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction.												
Manufacturing, durable goods—Con.												
Professional and photographic equipment, and watches												
Miscellaneous manufacturing industries												
Toys, amusement, and sporting goods												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												
Total												

Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

Employed persons 16 years and over—Con.

[illegible]

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Manufacturing, durable goods—Con.															
	Professional and photographic equipment, and watches						Miscellaneous manufacturing industries						Not specified manufacturing industries		
	Scientific and controlling instruments		Optical and health services supplies		Photographic equipment and supplies		Watches, clocks, and clockwork operated devices		Not specified professional equipment		Total			Toys, amusement, and sporting goods	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		Total	Female
United States															
Employed persons 16 years and over—Con.															
Operators, fabricators, and laborers—Con.															
Machine operators, assemblers, and inspectors—Con.															
Machine operators and tenders, except precision—Con.															
Machine operators, assorted materials—Con.															
Folding machine operators	18	7	202	187	69	38	—	—	—	—	347	251	278	185	
Furnace, kiln, and oven operators	254	64	221	49	172	5	26	10	—	—	814	87	735	56	
Crushing and grinding machine operators	92	30	375	234	37	6	22	8	—	—	629	86	514	76	
Slicing and cutting machine operators	569	269	1 270	753	609	108	102	30	13	—	4 574	1 823	3 226	1 240	
Motion picture projectionists	—	—	—	—	18	8	—	—	—	—	—	—	8	—	
Motion picture process machine operators	267	189	177	133	2 779	877	15	15	—	—	171	8	150	67	
Photographic process machine operators	3 488	1 837	5 346	3 420	2 490	631	626	459	1	—	15 617	8 944	12 177	6 814	
Miscellaneous machine operators, n.e.c.	8 426	4 240	11 591	7 562	5 364	1 297	1 449	986	20	—	44 211	23 426	34 465	17 514	
Machine operators, not specified	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Fabricators, assemblers, and hand working occupations	37 544	27 721	31 999	23 991	11 341	6 174	3 867	3 086	182	41	70 732	44 146	46 435	26 943	
Welders and others	2 611	938	1 769	662	574	71	163	32	75	2	6 079	1 082	4 848	823	
Solders and brazers	1 543	1 290	867	783	136	120	60	60	—	—	1 207	1 002	987	794	
Assemblers	33 213	25 365	28 589	22 016	10 510	5 933	3 391	2 806	107	39	56 602	39 654	35 030	23 613	
Hand cutting and trimming occupations	25	18	104	71	28	14	—	—	—	—	285	118	118	82	
Hand molding, casting, and forming occupations	16	14	245	176	33	5	8	—	—	—	2 266	412	1 791	305	
Hand painting, coating and decorating occupations	37	30	41	24	22	5	47	32	—	—	2 611	897	2 423	743	
Hand engraving and printing occupations	30	17	21	21	—	—	6	6	—	—	59	29	56	29	
Hand grinding and polishing occupations	15	15	75	32	29	—	29	29	—	—	525	210	509	210	
Miscellaneous hand working occupations	54	34	281	189	38	25	153	121	—	—	1 098	742	571	344	
Production inspectors, testers, samplers, and weighers	10 694	6 062	11 579	8 685	5 056	2 660	1 404	1 354	17	5	15 420	11 344	11 862	8 809	
Production inspectors, checkers, and examiners	7 867	4 745	10 259	7 916	4 023	2 208	1 466	1 248	17	5	13 266	10 007	10 273	7 852	
Production testers	2 688	1 214	1 088	581	918	401	115	83	—	—	1 061	566	725	346	
Production samplers and weighers	36	25	12	12	5	—	8	—	—	—	285	174	217	70	
Graders and sorters, except agricultural	103	78	220	176	110	51	15	15	—	—	808	597	647	499	
Transportation and material moving occupations	2 018	359	3 416	813	2 611	215	439	78	39	—	12 098	1 370	8 681	705	
Motor vehicle operators	663	78	1 332	229	941	54	164	7	—	—	5 364	173	4 434	138	
Supervisors, motor vehicle operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Truck drivers, heavy	458	58	562	44	572	8	109	—	—	—	3 457	71	2 799	38	
Truck drivers, light	143	20	685	154	233	20	53	7	—	—	1 502	72	1 319	78	
Driver-sales workers	8	—	54	31	48	19	2	—	—	—	6	6	108	12	
Bus drivers	—	—	5	—	25	7	—	—	—	—	8	8	8	10	
Taxicab drivers and chauffeurs	54	—	26	—	55	—	—	—	—	—	246	16	186	21	
Parking lot attendants	—	—	—	—	8	—	—	—	—	—	23	—	14	9	
Motor transportation occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	23	—	
Rail transportation occupations	7	7	—	—	9	—	—	—	—	—	8	—	8	—	
Railroad conductors and yardmasters	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Locomotive operating occupations	7	7	—	—	9	—	—	—	—	—	3	—	3	—	
Railroad brake, signal, and switch operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Rail vehicle operators, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Water transportation occupations	9	—	—	—	—	—	—	—	—	—	38	2	38	2	
Ship captains and mates, except fishing boats	3	—	—	—	—	—	—	—	—	—	19	—	19	—	
Sailors and deckhands	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Marine engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Bridge, lock, and lighthouse tenders	6	—	—	—	—	—	—	—	—	—	19	2	19	2	
Material moving equipment operators	1 339	274	2 084	584	1 661	161	275	71	39	—	6 688	1 195	4 201	565	
Supervisors, material moving equipment operators	69	6	107	5	86	6	—	—	7	—	108	9	58	7	
Operating engineers	8	—	20	7	—	—	—	—	—	—	14	—	14	—	
Longshore equipment operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Hoist and winch operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Crane and tower operators	33	—	20	2	44	—	5	5	6	—	26	—	26	—	
Excavating and loading machine operators	11	9	7	—	6	—	—	—	—	—	296	2	269	351	
Grader, dozer, and scraper operators	—	—	—	—	—	—	—	—	—	—	38	6	38	—	
Industrial truck and tractor equipment operators	469	36	684	131	968	71	95	10	—	—	18	—	18	12	
Miscellaneous material moving equipment operators	749	223	1 246	439	557	84	175	56	23	3	3 437	298	1 985	88	
											2 751	880	793	442	

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

Employed persons 16 years and over—Con

Operators, fabricators, and laborers—Cm.	-----
Handers, equipment cleaners, helpers, and laborers	-----
See washers, handers, equipment cleaners, and laborers,	-----
n.e.c.	-----
Helpers, mechanics and repairers	-----
Helpers, construction and extractive occupations	-----
Helpers, construction trades	-----
Helpers, surveyor	-----
Helpers, extractive occupations	-----
Construction laborers	-----
Production helpers	-----
Freight, stock, and material handlers	-----
Garbage collectors	-----
Stevedores	-----
Stock handlers and baggers	-----
Warehouse readers and orderfillers	-----
Freight, stock, and material handlers, n.e.c.	-----
Garage and service station related occupations	-----
Vehicle washers and equipment cleaners	-----
Hand packers and packagers	-----
Laborers, except construction	-----

Manufacturing, durable goods—Con.															
Professional and photographic equipment, and watches						Miscellaneous manufacturing industries									
Optical and health services supplies		Photographic equipment and supplies		Watches, clocks, and clockwork operated devices		Not specified professional equipment		Total		Toys, amusement, and sporting goods		Not specified manufacturing industries			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
4 907	2 223	10 330	6 972	3 689	1 282	1 178	887	40	11	35 490	19 338	26 159	13 799	22 388	8 141
5	-	11	-	-	-	5	-	-	-	47	-	33	-	123	21
52	-	23	6	-	-	-	41	-	-	41	49	-	41	49	5
19	1	17	-	16	7	-	142	-	-	142	19	119	19	51	-
19	-	17	-	16	-	-	19	-	-	142	19	119	19	42	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	41	17	93	-	2	-	5	-	163	39	150	28	254	44
137	5	169	67	89	14	21	-	-	-	1 041	331	816	250	893	183
788	307	909	349	708	99	117	78	12	-	3 769	1 226	2 713	892	2 120	547
22	16	8	-	7	-	-	-	-	-	29	11	19	11	18	12
-	-	6	-	-	-	-	-	-	-	5	5	5	-	10	10
373	132	250	137	363	72	76	50	-	-	1 008	348	693	200	557	243
147	69	277	140	186	21	26	21	7	-	1 121	664	915	551	664	195
246	90	368	66	152	6	15	7	5	-	1 606	203	1 081	130	1 094	87
34	6	41	-	5	5	-	-	-	-	26	20	19	13	29	15
181	53	200	109	82	11	13	13	-	-	680	189	547	150	329	78
1 766	1 055	5 468	4 598	1 522	873	641	511	17	11	14 779	11 453	10 430	8 139	5 757	3 585
1 896	1 796	3 451	1 826	1 174	273	379	285	6	-	15 002	6 061	11 291	4 308	12 783	3 663

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States									
	Transportation, communications, and other public utilities									
	Transportation									
	Total		Total		Railroads		Bus service and urban transit		Taxicab service	
	Total	Female	Total	Female	Total	Female	Government workers	Other workers	Total	Female
Employed persons 16 years and over	7 087 455	1 752 965	4 273 961	855 641	577 519	44 764	138 369	227 067	102 174	12 829
Managerial and professional specialty occupations	936 109	203 463	400 873	77 402	57 625	4 005	11 528	17 813	2 886	555
Executive, administrative, and managerial occupations	614 376	143 730	343 142	69 028	47 330	3 160	6 424	13 167	2 731	523
Legislators, chief executives, and general administrators	1 280	343	1 280	343	—	—	—	—	—	—
Public administration	1 280	343	1 280	343	—	—	—	—	—	—
Administrators and officials, public administration	1 280	343	1 280	343	—	—	—	—	—	—
Federal	1 280	343	1 280	343	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—	—	—
Administrators, protective services	148	20	122	—	6	—	—	—	—	—
Financial managers	14 756	3 241	6 999	1 388	801	58	224	287	16	—
Personnel and labor relations managers	15 082	4 388	6 666	1 436	576	92	129	19	116	25
Purchasing managers	2 780	386	1 457	245	221	5	85	47	29	—
Managers, marketing, advertising, and public relations	29 241	4 801	14 032	1 926	1 595	51	58	343	210	30
Administrators, education and related fields	687	188	293	98	6	—	21	22	6	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—
Managers, properties and real estate	3 409	270	824	106	134	—	30	39	8	—
Postmasters and mail superintendents	31 150	13 522	31 150	13 522	6	—	—	—	—	—
Federal directors	94	13	78	7	—	—	—	21	—	—
Managers and administrators, n.e.c.	392 524	75 208	225 246	33 363	34 026	1 553	3 861	10 126	2 334	409
Salaries	372 032	72 030	207 357	30 533	34 026	1 553	3 861	9 052	1 812	300
Self-employed	20 492	3 178	17 889	2 830	—	—	—	1 074	522	109
Management related occupations	123 225	41 350	54 996	16 594	9 959	1 401	2 016	1 860	228	83
Accountants and auditors	54 687	21 383	25 965	10 376	3 647	898	641	867	98	52
Underwriters	6 090	1 745	2 458	628	16	—	23	10	—	—
Other financial officers	6 090	1 745	2 458	628	419	53	—	71	24	10
Management analysts	3 639	1 146	1 087	304	114	22	35	7	11	—
Purchasing agents and buyers, farm products	33 885	12 162	13 182	3 402	2 006	233	702	101	72	12
Purchasing agents and buyers, trade except farm products	—	—	—	—	—	—	—	—	—	—
Business and promotion agents	9 815	2 212	4 733	1 015	732	124	220	42	14	—
Construction inspectors	1 757	74	500	286	60	—	87	24	—	—
Inspectors and compliance officers, except construction	8 889	585	5 484	333	2 453	24	273	19	—	—
Management related occupations, n.e.c.	3 487	1 588	1 210	288	505	47	35	23	9	9
Professional specialty occupations	321 733	59 733	57 731	8 374	10 295	845	5 104	652	155	32
Engineers, architects, and surveyors	147 480	11 830	27 446	743	6 047	116	1 953	509	15	32
Architects	1 126	83	468	20	53	6	105	7	—	—
Engineers	145 155	11 685	26 563	706	5 865	99	1 833	20	15	2
Aerospace engineers	437	75	1 345	41	92	—	13	7	—	—
Metallurgical and materials engineers	171	9	160	4	4	—	—	—	—	—
Mining engineers	424	16	158	4	2	—	—	5	—	—
Petroleum engineers	1 083	109	129	4	20	—	14	—	—	—
Chemical engineers	2 109	70	19	—	12	—	—	—	—	—
Nuclear engineers	17 887	577	5 826	73	3 513	46	937	6	15	—
Civil engineers	48	6	5	—	5	—	—	—	—	—
Agricultural engineers	85 213	9 110	2 418	61	616	5	441	101	12	—
Electrical and electronic engineers	7 243	3 378	344	15	615	15	116	145	15	—
Industrial engineers	6 969	254	1 590	80	343	20	73	46	—	—
Mechanical engineers	8 992	53	8 929	53	59	—	—	7	—	—
Marine engineers and naval architects	12 923	836	2 558	46	568	13	239	66	—	—
Engineers, n.e.c.	1 199	62	415	17	129	11	15	—	—	—
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—
Mathematical and computer scientists	22 368	6 407	6 828	1 734	1 645	379	175	172	—	—
Computer systems analysts and scientists	12 947	3 472	3 664	883	965	226	69	83	—	—
Operations and systems researchers and analysts	7 033	1 946	2 301	498	458	77	73	75	—	—
Actuaries	33	13	—	—	—	—	—	—	—	—
Statisticians	2 240	940	852	348	222	76	33	14	—	—
Mathematical scientists, n.e.c.	115	36	11	5	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States												
Transportation, communications, and other public utilities												
Transportation												
Total	Total		Railroads		Bus service and urban transit		Taxicab service		Trucking service			
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
9 558	1 496	862	121	14	176	33	8	28	5	64	7	
1 165	51	25	—	—	—	—	—	—	—	—	—	
4 230	779	358	54	7	138	19	—	5	5	33	—	
1 053	166	181	5	—	5	6	—	—	—	—	—	
805	54	65	10	—	6	—	—	—	—	5	—	
412	63	70	8	—	10	8	—	—	—	6	—	
205	54	78	30	7	9	4	—	4	—	13	—	
731	132	50	8	—	—	—	—	6	—	—	—	
855	160	21	—	—	—	—	—	6	—	—	—	
102	37	14	6	—	8	—	—	—	—	—	—	
619	91	226	23	—	32	11	—	23	11	28	—	
450	53	171	11	—	24	11	—	23	—	13	—	
46	28	30	12	—	9	—	—	—	—	7	—	
30	—	10	—	—	—	—	—	—	—	—	—	
48	6	—	—	—	—	—	—	—	—	—	—	
13	—	7	—	—	—	—	—	—	—	—	—	
32	4	8	—	—	—	—	—	—	—	—	—	
6 340	2 268	5 350	1 497	33	39	1 586	254	2 922	605	90	45	
1 744	1 550	933	814	33	33	57	32	222	183	53	45	
38	5	8	—	—	—	—	—	—	—	—	—	
74	21	58	7	—	—	—	—	13	—	9	—	
165	41	61	25	—	—	—	—	25	11	—	—	
4 319	651	4 290	651	—	6	1 529	222	2 662	411	15	—	
463	132	189	33	11	46	10	4	6	86	15	4	
8 663	2 972	4 762	775	14	139	387	41	322	23	185	24	
21	13	1	1	—	—	—	—	—	—	—	—	
1 430	172	1 408	156	—	—	—	—	—	—	—	—	
7 212	2 787	3 353	618	14	139	387	41	322	23	179	24	
295	154	52	32	—	—	—	—	—	—	—	—	
1 701	992	290	191	25	29	4	—	21	13	24	13	
833	602	242	180	25	29	—	—	13	13	19	13	
868	390	48	11	—	—	4	—	8	—	5	—	
8 724	2 727	1 982	515	73	345	194	111	32	13	185	21	
8 281	2 640	1 827	473	66	320	134	90	26	13	178	14	
235	45	50	7	—	8	—	—	—	—	7	—	
63	7	20	7	—	10	—	—	—	—	—	—	
145	35	85	28	7	7	40	21	6	—	—	—	
864	417	382	212	17	46	29	21	41	39	38	9	
583	326	253	161	17	33	29	21	26	26	18	9	
122	61	74	38	—	—	—	—	—	—	—	—	
115	23	49	13	—	13	—	—	15	13	14	—	
44	7	6	—	—	—	—	—	—	—	6	—	
5 648	927	2 329	374	72	730	287	30	129	13	271	32	
5 648	927	2 329	374	72	730	287	30	129	13	271	32	
—	—	—	—	—	—	—	—	—	—	—	—	
109 010	29 320	7 033	2 124	91	1 020	435	133	441	143	618	184	
1 516	841	25	18	—	51	21	—	22	—	—	—	
2 844	1 168	558	122	8	274	75	12	39	7	46	6	
6 823	1 575	896	128	—	14	—	—	—	—	72	8	
1 145	246	110	77	5	56	—	—	30	30	10	10	
20 148	6 246	179	65	7	19	61	25	23	11	28	20	
2 187	864	419	180	7	48	41	8	38	—	5	5	
7 739	923	248	37	—	—	—	—	—	—	—	—	
55	32	24	19	—	—	—	—	10	—	13	6	
891	293	111	42	—	—	—	—	6	15	33	33	
15 087	5 476	697	270	15	114	20	57	198	73	385	96	
11 515	4 491	3 115	1 163	56	384	191	82	63	25	—	—	
38 610	7 084	84	12	—	52	4	—	17	7	—	—	
61	—	567	61	—	8	22	—	—	—	2	—	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Transportation, communications, and other public utilities									
	Transportation									
	Total									
	Total		Male		Female		Total		Male	
Employed persons 16 years and over—Con.	Total		Male		Female		Total		Male	
	Total		Male		Female		Total		Male	
Technical, sales, and administrative support occupations	2 521	707	1 260	435	1 437	099	565	934	33	549
Technicians and related support occupations	220	095	32	688	91	880	7	377	4	466
Health technologists and technicians	10	634	2	660	8	884	2	337	8	540
Clinical laboratory technologists and technicians	1	227	365	1	089	292	6	724	1	445
Dental hygienists	42	18	18	6	42	18	18	6	80	176
Health record technologists and technicians	155	47	14	6	14	6	6	6	11	11
Radiologic technicians	251	169	181	123	7	7	7	7	100	6
Licensed practical nurses	8	933	2	405	7	552	1	898	637	81
Health technologists and technicians, n.e.c.	66	203	11	296	10	209	624	57	4	831
Engineering and related technologists and technicians	27	246	1	774	5	252	233	167	66	182
Electrical and electronic technicians	760	111	235	32	58	25	233	58	14	14
Industrial engineering technicians	452	13	188	13	13	25	15	147	7	7
Mechanical engineering technicians	13	835	3	002	1	633	154	309	22	14
Engineering technicians, n.e.c.	20	704	6	078	2	050	65	233	9	23
Drafting occupations	3	206	318	851	141	264	113	26	59	29
Surveying and mapping technicians	6	100	1	032	1	180	297	4	19	5
Science technicians	1	447	105	106	49	106	8	8	5	5
Biological technicians	1	791	341	84	13	12	4	11	7	7
Chemical technicians	3	862	586	990	235	80	4	11	50	14
Science technicians, n.e.c.	137	158	17	700	3	991	513	193	216	509
Technicians, except health, engineering, and science	58	938	707	58	374	26	6	39	104	104
Air traffic controllers	16	857	2	862	2	095	22	96	343	25
Broadcast equipment operators	22	537	7	858	6	669	178	83	19	359
Computer programmers	390	138	114	33	33	38	52	9	17	12
Tool programmers, numerical control	1	404	749	452	255	89	22	14	93	56
Legal assistants	37	032	5	386	3	903	217	83	11	57
Technicians, n.e.c.	215	920	107	680	139	005	3	325	165	113
Sales occupations	12	128	2	194	7	462	1	330	363	3736
Supervisors and proprietors, sales occupations	11	159	2	051	1	111	39	12	68	103
Salaries	969	143	848	116	247	7	207	37	137	95
Self-employed	159	146	81	109	58	513	24	26	31	299
Sales representatives, finance and business services	1	513	312	843	229	36	20	18	14	392
Insurance sales occupations	19	873	7	616	395	47	4	8	53	31
Real estate sales occupations	137	760	73	181	100	575	58	104	15	361
Securities and financial services sales occupations	834	44	144	144	15	5	5	40	40	40
Advertising and related sales occupations	834	44	144	144	15	5	5	40	40	40
Sales occupations, other business services	43	508	24	207	29	454	12	539	198	241
Sales representatives, commodities, except retail	2	865	293	1	868	95	26	73	9	2
Sales engineers	515	259	371	185	11	337	3	31	31	29
Wholesale	36	757	21	597	25	382	170	307	286	1945
Sales workers, retail and personal services	2	691	1	780	1	340	948	4	7	116
Sales counter clerks	680	126	126	132	51	17	4	4	2	110
Cashiers	304	158	75	38	25	3	3	3	2	2
Street and door-to-door sales workers	58	88	51	26	26	14	14	14	14	14
News vendors	2	085	1	067	1	206	214	6	676	8348
Sales related occupations	183	598	61	942	71	220	16	238	718	4633
Demonstrators, promoters and models, sales	53	619	26	177	20	771	7	251	218	1959
Auctioneers	4	100	1	267	999	182	12	21	629	61
Sales support occupations, n.e.c.	14	007	20	043	6	394	2	445	12	5
Administrative support occupations, including clerical	61	987	20	043	6	394	2	445	12	5
Supervisors, administrative support occupations	49	491	20	337	42	361	6	240	76	81
Supervisors, general office	35	852	20	337	42	361	6	240	76	81
Supervisors, computer equipment operators	32	863	1	554	12	663	6	442	18	13
Supervisors, financial records processing	2	989	1	554	1	736	724	5	5	5
Supervisors, communications operators	106	703	4	633	14	437	1	966	6	676
Supervisors, distribution, scheduling, and adjusting clerks	175	989	7	547	2	984	3	060	19	523
Computer operators	2	852	1	792	1	792	1	792	1	792
Peripheral equipment operators	172	172	8	172	8	172	8	172	8	172

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Transportation									
	Total					Railroads					Bus service and urban transit					Taxicab service				
	Total	Female	Total	Female	Total	Total	Female	Total	Female	Total	Government workers	Female	Total	Female	Total	Total	Female	Total	Female	Total
Technical, sales, and administrative support occupations—Con																				
Administrative support occupations, including clerical—Con																				
Secretaries, stenographers, and typists—																				
Secretaries—	218 598	212 922	97 033	93 896	10 389	10 389	9 235	2 200	2 156	4 437	2 200	2 156	4 437	4 385	493	31 418	478	30 740		
Stenographers—	168 862	165 974	78 744	77 124	6 318	6 318	5 823	1 580	1 552	3 686	1 580	1 552	3 686	3 664	446	27 041	431	26 629		
Typists—	9 188	8 824	3 543	3 270	2 171	2 171	1 936	89	89	112	89	89	112	112	7	148	40	148		
Information clerks—	40 548	38 124	14 746	13 502	1 900	1 900	1 476	531	515	639	531	515	639	609	40	4 229	305	3 983		
Information clerks—	119 672	77 374	96 262	57 831	6 226	6 226	1 590	1 194	591	1 938	1 194	591	1 938	1 866	372	3 371	12	2 783		
Hotel clerks—	3 222	2 046	1 067	677	102	102	45	40	35	67	40	35	67	67	12	210	12	166		
Transportation ticket and reservation agents—	83 849	47 872	83 413	47 664	5 461	5 461	1 242	646	215	777	646	215	777	370	29	—	9	99		
Receptionists—	15 831	14 876	9 100	8 808	313	313	186	375	256	665	375	256	665	492	109	1 577	102	1 445		
Information clerks, n.e.c.—	16 770	13 277	3 682	2 862	330	330	117	117	85	429	117	85	429	289	222	1 255	182	1 073		
Records processing occupations, except financial—	128 279	92 715	17 677	9 912	3 479	3 479	1 253	446	186	419	446	186	419	277	103	3 809	44	2 862		
Classified-ad clerks—	425	290	61	39	2	2	—	—	—	—	—	—	—	—	16	30	9	17		
Correspondence clerks—	940	659	468	353	110	110	69	—	—	7	—	—	7	—	7	94	—	76		
Order clerks—	98 544	70 402	6 243	2 593	932	932	187	175	43	175	175	43	175	82	12	1 125	12	576		
Personnel clerks, except payroll and timekeeping—	4 177	3 439	1 702	1 234	240	240	139	54	41	82	54	41	82	62	6	398	6	341		
Library clerks—	496	328	100	65	10	10	—	5	—	7	5	—	7	7	5	20	—	20		
File clerks—	14 098	10 592	6 843	4 671	881	881	452	152	89	129	152	89	129	100	51	1 827	17	1 609		
Records clerks—	9 599	7 005	2 260	957	1 304	1 304	406	60	13	19	60	13	19	19	—	315	—	223		
Financial records processing occupations—	158 166	122 025	92 632	66 986	11 962	11 962	4 854	1 191	705	3 335	1 191	705	3 335	2 826	761	38 169	641	30 118		
Bookkeepers, accounting, and auditing clerks—	100 687	83 407	57 204	46 534	4 331	4 331	2 079	654	439	2 331	654	439	2 331	2 017	656	21 488	542	19 067		
Payroll and timekeeping clerks—	19 631	13 687	11 480	7 012	2 420	2 420	1 148	411	197	427	411	197	427	343	84	3 644	78	3 024		
Billing clerks—	22 425	17 976	12 188	9 017	2 296	2 296	850	48	42	433	48	42	433	392	21	7 153	21	5 985		
Cost and rate clerks—	13 079	5 119	10 449	3 480	2 669	2 669	624	50	6	107	50	6	107	44	—	5 456	—	1 691		
Billing, posting, and calculating machine operators—	2 344	1 836	1 311	943	246	246	153	28	21	37	28	21	37	30	—	428	—	351		
Duplicating, mail, and other office machine operators—	2 996	1 652	1 506	699	194	194	40	105	39	53	105	39	53	48	6	319	—	219		
Duplicating machine operators—	948	523	333	140	29	29	—	7	—	—	7	—	—	—	—	71	—	43		
Mail preparing and paper handling machine operators—	525	204	373	139	9	9	—	—	—	5	—	—	5	—	—	113	—	74		
Office machine operators, n.e.c.—	1 523	925	800	420	156	156	40	98	32	48	98	32	48	48	6	135	—	102		
Communications equipment operators—	149 752	128 416	8 988	4 328	4 690	4 690	796	249	173	441	249	173	441	324	513	1 188	498	1 300		
Telephone operators—	143 408	126 592	4 376	3 768	4 481	4 481	317	200	166	412	200	166	412	324	513	1 188	498	1 300		
Telegraphers—	5 896	1 646	4 365	1 505	4 192	4 192	479	49	5	29	49	5	29	—	—	—	—	5		
Communications equipment operators, n.e.c.—	448	138	247	57	17	17	—	—	—	—	—	—	—	—	—	—	—	—		
Mail and message distributing occupations—	550 671	137 236	541 200	133 028	1 811	1 811	390	184	39	188	184	39	188	62	75	10 277	23	2 674		
Postal clerks, except mail carriers—	267 035	95 511	267 035	95 511	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Mail carriers, postal service—	256 593	33 179	256 593	33 179	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Mail clerks, except postal service—	17 652	6 397	10 729	3 003	785	785	202	148	39	124	148	39	124	47	49	—	—	—		
Messengers—	9 391	2 149	6 843	1 335	1 026	1 026	188	36	—	64	36	—	64	15	26	—	—	—		
Material recording, scheduling, and distributing clerks—	241 314	57 286	145 502	28 239	18 435	18 435	1 934	3 491	720	5 130	3 491	720	5 130	1 471	3 623	1 525	43 475	7 241		
Dispatchers—	52 778	39 913	7 738	5 825	5 825	5 825	469	1	328	2 276	1	328	2 276	831	2 877	1 190	23 020	4 037		
Production coordinators—	23 616	10 290	10 594	3 150	1 120	1 120	171	685	208	727	685	208	727	278	674	303	1 172	326		
Traffic, shipping, and receiving clerks—	59 672	11 961	55 172	9 994	3 773	3 773	402	351	63	1 436	351	63	1 436	34	22	11 012	10	1 857		
Stock and inventory clerks—	39 083	9 309	21 942	4 464	4 281	4 281	533	505	90	454	505	90	454	138	25	2 610	10	452		
Meter readers—	41 407	4 239	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Weights, measurers, and checkers—	13 323	1 724	12 237	1 332	1 728	1 728	148	55	6	153	55	6	153	57	13	4 999	—	271		
Samplers—	214	64	128	17	33	33	—	—	—	8	—	—	8	—	—	—	—	—		
Expeditors—	6 441	2 745	3 606	1 105	394	394	106	6	6	36	6	6	36	7	—	539	—	242		
Material recording, scheduling, and distributing clerks, n.e.c.—	4 780	2 746	1 910	439	1 281	1 281	98	38	19	40	38	19	40	13	—	88	—	56		
Adjusters and investigators—	32 871	17 092	13 622	6 580	2 489	2 489	765	499	125	428	499	125	428	198	40	5 117	12	2 908		
Insurance adjusters, examiners, and investigators—	23 320	12 199	11 332	5 281	2 235	2 235	651	249	67	297	249	67	297	130	28	4 206	—	2 256		
Investigators and adjusters, except insurance—	301	191	168	79	22	22	16	—	—	—	—	—	—	—	—	25	—	—		
Eligibility clerks, social welfare—	9 250	4 702	2 122	1 220	232	232	98	250	58	131	250	58	131	68	12	886	12	642		
Bill and account collectors—	263 923	191 070	106 173	61 200	29 045	29 045	9 902	2 725	1 382	3 350	2 725	1 382	3 350	2 341	382	28 216	226	21 040		
Miscellaneous administrative support occupations—	183 886	134 079	76 491	42 634	23 144	23 144	7 034	2 000	996	2 399	2 000	996	2 399	1 758	336	21 042	206	15 616		
General office clerks—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Bank tellers—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Proofreaders—	472	346	91	31	10	10	—	7	—	—	7	—	—	—	—	—	—	—		
Data-entry keyers—	28 884	24 312	13 961	11 227	3 334	3 334	2 103	242	210	267	242	210	267	207	—	3 607	—	3 299		
Statistical clerks—	23 943	18 055	4 784	2 427	1 322	1 322	47	117	47	239	117	47	239	143	12	912	6	576		
Teachers' aides—	23 179	18 108	102	58	12	12	6	5	5	—	5	—	—	—	—	8	—	8		
Administrative support occupations, n.e.c.—	26 559	14 170	10 744	4 823	1 223	1 223	328	354	124	440	354	124	440	228	34	2 616	14	1 541		

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Transportation, communications, and other public utilities									
	Transportation									
	Total		Total		Railroads		Government workers		Other workers	
United States	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	250 776	93 354	186 271	80 571	14 336	1 639	9 441	1 327	11 719	4 968
Private household occupations	35 663	4 572	23 607	2 955	5 477	194	1 460	158	808	311
Protective service occupations	1 283	80	1 017	33	121	—	—	—	2	—
Supervisors, protective service occupations	1 159	—	107	—	—	—	—	—	—	—
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	—	—	—	—	—	—	—	—	—	—
Supervisors, guards	1 124	80	524	33	121	—	13	—	2	—
Supervisors, fire prevention occupations	1 916	65	1 592	51	262	15	15	—	24	—
Fire inspection and fire prevention occupations	336	14	174	3	90	—	6	—	3	—
Firefighting occupations	1 580	51	1 418	51	172	15	9	—	21	—
Police and detectives	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—
Guards	32 444	4 427	21 384	2 871	5 094	179	1 432	158	782	311
Crossing guards	1 424	148	1 373	118	191	47	—	—	—	—
Guards and police, except public service	3 902	3 902	19 552	2 385	3 890	132	1 303	73	472	8
Protective service occupations, n.e.c.	30 456	377	459	368	13	—	85	79	270	252
Service occupations, except protective and household food preparation and service occupations	215 113	88 782	162 664	77 616	8 859	1 445	7 981	1 169	10 911	4 657
Food preparation and service occupations	15 721	7 011	13 401	5 503	1 936	214	43	13	598	448
Supervisors, food preparation and service occupations	1 139	280	1 041	221	175	—	8	—	31	7
Bakers	597	134	580	127	294	22	5	—	4	—
Waiters and waitresses	2 264	1 229	1 923	977	495	52	6	6	132	125
Cooks, except short order	6 615	2 554	6 030	2 176	765	87	5	2	226	181
Short-order cooks	69	32	67	30	3	—	—	—	6	—
Food counter, fountain and related occupations	609	510	202	153	3	—	—	—	13	—
Kitchen workers, food preparation	904	442	580	356	28	21	—	—	84	52
Waiters and waitresses, assistants	907	442	766	340	104	—	10	5	—	—
Miscellaneous food preparation occupations	2 617	1 388	2 212	1 123	70	27	9	—	102	64
Health service occupations	4 196	1 546	3 769	1 309	41	18	749	242	2 486	822
Dental assistants	84	75	74	65	—	—	—	—	—	—
Health aides, except nursing	2 198	886	2 738	812	17	—	527	180	1 986	598
Nursing aides, orderlies, and attendants	1 194	585	957	432	24	18	222	62	1 986	598
Cleaning and building service occupations, except household	106 473	18 128	58 671	9 761	5 320	983	3 778	272	2 884	599
Supervisors, cleaning and building service workers	3 872	237	2 354	129	124	4	190	33	2 884	599
House and housemen	7 465	2 494	4 601	1 354	366	150	724	41	403	128
Janitors and cleaners	93 310	15 034	50 557	8 075	4 566	811	2 855	198	2 379	462
Elevator operators	1 134	249	997	151	64	18	9	—	21	—
Pest control occupations	1 672	114	1 62	52	—	—	—	—	—	—
Personal service occupations	88 723	62 097	86 823	61 043	1 562	230	3 411	642	4 943	2 788
Supervisors, personal service occupations	2 682	1 182	2 577	1 126	12	—	18	—	49	9
Barbers	96	46	44	17	6	—	—	—	—	—
Hairdressers and cosmetologists	343	193	25	17	—	—	—	—	—	—
Attendants, amusement and recreation facilities	443	84	364	48	21	1	60	—	53	5
Guides	5 911	3 188	5 611	3 088	12	—	53	34	556	383
Ushers	312	97	244	81	105	—	9	—	3	—
Public transportation attendants	67 775	53 198	67 775	53 198	623	84	2 832	310	1 484	706
Baggage porters and bellhops	6 430	567	6 409	567	543	48	82	4	1 081	79
Welfare service aides	—	—	—	—	—	—	—	—	—	—
Child care workers, except private household	1 995	1 692	1 739	1 545	10	—	252	219	1 106	107
Personal service occupations, n.e.c.	2 736	1 850	2 035	1 356	230	90	105	75	611	589
Farming, forestry, and fishing occupations	6 552	534	2 830	329	278	—	50	12	63	8
Farm operators and managers	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	99	38	38	14	—	—	—	—	—	—
Related agricultural occupations	5 203	447	1 916	280	157	—	50	12	63	8
Supervisors, related agricultural occupations	1 170	43	90	43	—	—	—	—	—	—
Groundkeepers and gardeners, except farm	4 498	226	1 365	43	157	—	50	12	55	8
Animal caretakers, except farm	—	171	454	164	—	—	—	—	—	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	42	7	7	—	—	—	—	—	—	—
Trucking service	11 166	—	—	—	—	—	—	—	—	—
Toxicab service	3 023	—	—	—	—	—	—	—	—	—
Total	11 166	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States		Transportation										Trucking service	
	Total		Total		Railroads		Government workers		Other workers		Taxicab service		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con.														
Forestry and logging occupations	768	43	477	29	114	—	—	—	—	—	—	—	241	—
Supervisors, forestry and logging workers	13	—	11	—	—	—	—	—	—	—	—	—	7	—
Forestry workers, except logging	100	—	58	—	36	—	—	—	—	—	—	—	6	—
Timber cutting and logging occupations	655	43	408	29	78	—	—	—	—	—	—	—	228	—
Fishers, hunters, and trappers	482	6	399	6	7	—	—	—	—	—	15	—	20	—
Captains and other officers, fishing vessels	159	—	144	—	—	—	—	—	—	—	5	—	7	—
Fishers	253	6	224	6	—	—	—	—	—	—	10	—	—	—
Hunters and trappers	70	—	31	—	7	—	—	—	—	—	—	—	12	—
Precision production, craft, and repair occupations	1 219 828	52 276	413 558	8 866	110 652	965	21 725	269	20 473	535	2 697	20	105 897	2 125
Mechanics and repairers	680 853	33 226	261 379	2 917	52 109	510	14 887	151	16 818	296	2 487	8	72 086	393
Supervisors, mechanics and repairers	39 602	2 051	24 592	1 243	3 406	63	13 282	30	15 166	6	2 413	—	2 378	9
Mechanics and repairers, except supervisors	641 251	32 175	236 787	2 674	46 703	447	13 252	121	15 652	290	2 413	8	69 308	384
Vehicle and mobile equipment mechanics and repairers	214 251	2 130	193 612	1 890	35 363	309	11 905	92	14 316	262	2 413	8	69 308	384
Automobile mechanics	45 191	473	33 151	219	1 448	19	7 886	87	10 081	188	30	—	17 377	189
Bus, truck, and stationary engine mechanics	55 191	556	43 150	516	1 148	19	7 886	87	10 081	188	30	—	42 019	199
Aircraft engine mechanics	51 835	609	35 406	609	3	—	—	—	—	—	—	—	24	—
Aircraft mechanics	2 484	—	1 381	—	14	—	20	—	8	—	8	—	737	9
Small engine repairers	2 256	25	1 882	14	27	—	183	5	351	—	201	—	16	—
Automobile body and related repairers	5 164	157	5 106	151	—	—	6	—	—	—	—	—	885	9
Aircraft mechanics, except engine	5 164	157	5 106	151	—	—	6	—	—	—	—	—	16	—
Heavy equipment mechanics	41 643	310	39 404	305	33 358	290	2 128	—	1 295	9	5	—	180	—
Farm equipment mechanics	41 712	2	242	—	7	—	—	—	27	—	—	—	—	—
Industrial machinery repairers	25 769	307	7 980	53	1 262	8	491	—	206	10	27	—	1 042	5
Machinery maintenance occupations	6 281	92	4 978	89	5 799	12	6	—	20	6	8	—	342	—
Electrical and electronic equipment repairers	325 297	28 242	11 124	315	—	—	411	9	191	6	27	—	291	11
Electronic repairers, communications and industrial equipment	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Data processing equipment repairers	27 505	787	5 914	84	2 592	17	265	9	127	—	27	—	93	11
Household appliance and power tool repairers	2 108	191	470	58	67	—	10	—	13	—	—	—	35	—
Telephone line installers and repairers	8 184	167	236	9	36	9	7	—	12	—	—	—	73	—
Telephone installers and repairers	58 907	2 832	294	8	185	—	—	—	5	—	—	—	31	—
Miscellaneous electrical and electronic equipment repairers	223 527	24 157	1 289	109	585	12	87	—	6	6	—	—	—	—
Heating, air conditioning, and refrigeration mechanics	5 066	108	2 921	47	2 354	47	42	—	28	—	—	—	48	—
Miscellaneous mechanics and repairers	4 925	67	1 967	19	161	—	104	—	91	5	6	—	513	2
Camera, watch, and musical instrument repairers	64 479	1 247	21 826	248	3 682	33	708	20	628	7	172	—	5 995	60
Locksmiths and safe repairers	216	35	290	14	21	—	—	—	6	—	—	—	15	6
Office machine repairers	1 793	69	1 088	3	28	—	—	—	—	—	—	—	8	—
Mechanical controls and valve repairers	19 249	323	3 309	27	14	—	14	—	18	—	30	—	47	8
Elevator installers and repairers	402	27	193	6	59	—	—	—	21	—	—	—	35	—
Millwrights	2 952	54	998	11	102	—	5	—	36	5	—	—	343	—
Specified mechanics and repairers, n.e.c.	22 145	403	11 684	113	2 907	20	371	14	412	2	46	—	4 179	36
Not specified mechanics and repairers	17 103	327	6 819	74	551	13	251	—	135	—	96	—	1 349	10
Construction trades	243 927	3 995	49 537	602	29 525	243	4 016	—	1 507	16	33	—	2 072	72
Supervisors, construction occupations	30 239	494	4 346	25	2 348	6	331	—	138	—	—	—	248	7
Supervisors, brickmasons, stonemasons, and tile setters	26	—	5	—	—	—	—	—	—	—	—	—	—	—
Supervisors, carpenters and related workers	524	3	243	—	142	—	24	—	21	—	—	—	2	—
Supervisors, electricians and power transmission installers	6 596	47	1 654	—	1 332	—	80	—	42	—	—	—	4	—
Supervisors, painters, paperhangers, and plasterers	36	—	24	—	—	—	9	—	—	—	—	—	—	—
Supervisors, plumbers, pipefitters, and steamfitters	615	4	94	—	21	—	—	—	—	—	—	—	10	—
Supervisors, n.e.c.	22 442	440	2 326	25	853	6	218	—	75	—	—	—	232	7
Construction trades, except supervisors	213 688	3 501	45 191	577	27 177	237	3 685	—	1 369	16	33	—	1 824	65
Brickmasons and stonemasons	1 029	29	426	9	144	—	150	—	—	—	—	—	39	—
Tile setters, hard and soft	70	20	34	12	—	—	18	—	—	—	—	—	—	—
Carpenters	116	—	74	—	11	—	—	—	—	—	—	—	9	—
Drywall installers	14 753	208	8 026	90	4 521	30	338	—	171	7	14	—	463	—
Electricians	54 684	875	16 232	145	9 776	116	1 517	—	572	—	10	—	377	—
Electrical power installers and repairers	93 117	1 261	6 449	51	5 257	32	961	—	312	—	—	—	22	—
Painters, construction and maintenance	5 933	188	3 226	84	894	22	215	—	109	2	9	—	488	25
Paperhangers	5 28	8	18	—	—	—	—	—	—	—	—	—	6	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Transportation, communications, and other public utilities									
	Transportation									
	Total		Total		Railroads		Bus service and urban transit		Taxicab service	
	Total	Female	Total	Female	Total	Female	Government workers	Other workers	Total	Female
United States										
Employed persons 16 years and over—Con.										
Precision production, craft, and repair occupations—Con.										
Construction trades—Con.										
Construction trades, except supervisors—Con.	41	—	16	—	—	—	—	—	—	—
Plasterers	31 804	648	5 385	35	3 714	21	235	103	—	—
Plumbers, pipefitters, and steamfitters	438	—	80	—	13	—	5	13	—	—
Concrete and terrazzo finishers	74	26	31	20	7	—	—	—	—	—
Glaziers	843	47	52	6	21	—	—	—	—	—
Insulation workers	92	—	45	—	—	—	—	—	—	—
Paving, surfacing, and tamping equipment operators	96	11	44	—	2	—	—	—	—	—
Roofers	329	6	130	6	44	—	—	—	—	—
Sheetmetal duct installers	1 443	—	367	—	153	—	61	37	—	—
Structural metal workers	297	7	7	—	—	—	—	—	—	—
Drillers, earth	8 414	157	4 292	107	2 591	16	185	52	7	—
Construction trades, n.e.c.	55	20	606	20	14	—	21	33	—	—
Extrusive occupations	1 225	12	205	12	14	—	21	17	—	—
Supervisors, extractive occupations	397	177	115	—	—	—	—	—	—	—
Drillers, oil well	218	—	112	—	46	—	—	—	—	—
Explosives workers	210	28	67	8	13	—	—	—	—	—
Mining machine operators	223	15	107	—	9	—	—	—	—	—
Mining occupations, n.e.c.										
Precision production occupations	293 823	15 000	101 836	5 425	28 936	212	2 801	118	177	12
Supervisors, production occupations	151 234	8 682	57 460	3 507	4 073	67	1 406	81	120	—
Precision metalworking occupations	33 393	24	23 257	212	16 662	75	548	311	8	—
Tool and die makers	550	24	103	10	103	—	—	—	—	—
Precision assemblers, metal	144	35	63	11	23	—	—	—	—	—
Machinists	23 014	184	17 889	113	13 767	53	410	238	8	—
Boilermakers	4 724	91	1 091	9	890	2	7	10	—	—
Patternmakers, engravers, filers, and tool sharpeners	91	6	46	—	19	—	—	—	—	—
Patternmakers and model makers, metal	105	6	43	6	29	—	—	—	—	—
Lay-out workers	343	32	233	—	67	—	—	—	—	—
Precious stones and metals workers (jewelers)	105	26	55	7	11	—	—	—	—	—
Engravers, metal	66	7	26	7	6	—	—	—	—	—
Sheet metal workers	4 217	53	3 522	49	1 747	20	131	56	—	—
Miscellaneous precision metal workers	34	—	12	—	—	—	—	—	—	—
Precision woodworking occupations	357	36	267	29	46	—	—	—	—	—
Patternmakers and model makers, wood	27	—	16	—	10	—	—	—	—	—
Cabinet makers and bench carpenters	206	22	159	22	36	—	—	—	—	—
Furniture and wood finishers	59	—	59	—	—	—	—	—	—	—
Miscellaneous precision woodworkers	14	—	33	7	—	—	—	—	—	—
Precision textile, apparel, and furnishings machine workers	988	216	602	162	103	11	58	58	18	—
Dressmakers	399	119	115	93	—	—	—	—	—	—
Tailors	39	—	33	—	—	—	—	—	—	—
Upholsterers	380	57	375	57	103	11	58	52	14	—
Shoe repairers	60	8	12	—	—	—	—	—	—	—
Apparel and fabric patternmakers	49	—	36	—	—	—	—	—	—	—
Miscellaneous precision apparel and fabric workers	61	27	31	12	—	—	—	—	—	—
Precision workers, assorted materials	2 166	377	557	169	124	11	6	19	—	—
Hand molders and shapers, except jewelers	125	7	60	7	36	—	—	—	—	—
Patternmakers, lay-out workers, and cutters	58	8	45	8	22	6	—	—	—	—
Optical goods workers	77	11	16	11	—	—	—	—	—	—
Dental laboratory and medical appliance technicians	110	24	63	28	12	—	—	—	—	—
Bookbinders	87	41	53	33	14	5	2	6	—	—
Electrical and electronic equipment assemblers	437	274	140	101	40	—	4	10	8	—
Miscellaneous precision workers, n.e.c.	1 272	12	180	3	—	—	—	—	—	—
Precision food production occupations	3 521	1 017	3 349	988	51	8	5	2	—	—
Butchers and meat cutters	3 229	967	3 098	943	29	8	5	2	—	—
Bakers	202	5	161	161	22	—	—	—	—	—
Food batchmakers	90	45	90	45	—	—	—	—	—	—
Precision inspectors, testers, and related workers	16 715	1 098	11 527	183	7 234	40	438	162	5	—
Inspectors, testers, and graders	16 607	1 092	11 428	183	7 141	40	438	136	5	—
Adjusters and calibrators	108	6	99	—	93	—	—	6	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Transportation, communications, and other public utilities											
United States											
Transportation											
Total			Total		Railroads		Bus service and urban transit		Taxicab service		Trucking service
Total	Female		Total	Female	Total	Female	Government workers	Other workers	Total	Female	Total
							Total	Female	Total	Female	Female
Employed persons 16 years and over—Con.											
Precision production, craft, and repair occupations—Con.											
Precision production occupations—Con.											
85 449	3 110	4 817	175	—	643	—	340	20	244	68	309
27 389	819	78	97	—	5	—	—	—	—	—	7
20 956	1 070	329	97	—	19	—	133	20	132	68	5
22 567	770	3 301	38	—	601	—	207	—	104	—	233
14 537	443	1 109	40	—	18	—	—	—	8	8	64
2 152 483	142 903	1 833 330	122 539	4 606	287 848	4 606	73 922	13 247	141 974	45 817	944 107
164 310	18 418	80 545	7 357	635	39 550	635	2 109	62	1 419	138	10 300
78 227	9 938	33 244	4 009	311	13 468	311	652	20	651	103	3 626
3 958	291	2 059	103	26	1 136	26	70	—	36	—	181
622	38	420	2	—	30	—	—	—	—	—	19
83	—	48	—	—	—	—	19	—	8	—	22
1 385	91	369	25	2	155	2	43	—	5	—	25
64	14	41	19	—	19	—	—	—	6	—	54
303	42	149	7	7	69	7	8	—	2	—	12
951	69	722	56	17	441	17	—	—	9	—	47
343	4	213	—	—	176	—	—	—	—	—	2
48	13	6	—	—	—	—	—	—	—	—	—
89	20	42	13	—	—	—	—	—	—	—	—
305	81	183	44	—	52	—	—	—	—	—	—
957	98	565	24	—	72	—	33	—	18	—	22
510	80	241	19	—	2	—	18	—	16	—	54
317	18	246	5	—	28	—	15	—	8	—	44
83	—	42	—	—	23	—	—	—	2	—	8
—	—	—	—	—	—	—	—	—	—	—	—
47	—	36	—	—	19	—	—	—	—	—	2
447	43	297	32	2	50	2	6	—	—	—	96
25	—	20	—	—	—	—	—	—	—	—	6
277	25	199	25	2	21	2	—	—	12	—	77
22	6	16	—	—	12	—	—	—	—	—	—
123	12	62	7	—	17	—	6	—	—	—	—
2 793	878	1 123	293	22	165	22	59	14	47	5	174
2 251	555	942	187	15	146	15	59	14	37	5	121
103	57	46	24	—	19	—	—	—	—	—	12
273	187	84	62	7	—	7	—	—	—	—	34
166	79	51	20	—	—	—	—	—	—	—	34
1 047	347	519	153	25	93	25	—	—	23	13	85
106	26	35	—	—	7	—	—	—	6	—	7
8	8	—	8	—	—	—	—	—	—	—	8
20	—	6	—	—	—	—	—	—	—	—	6
290	104	170	61	10	26	10	—	—	—	—	37
53	—	12	—	—	—	—	—	—	—	—	—
103	46	30	14	—	—	—	—	6	—	—	—
244	123	118	59	15	46	15	—	12	3	7	11
223	40	140	11	—	14	—	—	5	—	—	16
68 720	8 200	28 498	3 360	236	11 900	236	484	6	527	85	3 014
250	20	80	12	—	12	—	5	—	—	—	22
572	195	386	132	7	7	—	—	—	—	—	105
582	42	184	47	—	17	—	—	—	—	—	24
1 543	227	184	47	—	17	—	—	4	—	—	13
272	49	165	12	—	8	—	—	4	—	—	27
2 191	55	1 576	37	16	439	16	50	—	10	—	329
54	10	28	10	—	9	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States									
	Transportation, communications, and other public utilities									
	Transportation									
	Total		Total		Railroads		Bus service and urban transit		Taxicab service	
	Total	Female	Total	Female	Total	Female	Government workers	Other workers	Total	Female
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.										
Operators, fabricators, and laborers—Con.										
Machine operators, assemblers, and inspectors—Con.										
Machine operators and tenders, except precision—Con.										
Machine operators, assorted materials—Con.										
Folding machine operators	131	48	71	37	—	—	—	—	—	—
Furnace, kiln, and oven operators	8 469	108	1 113	23	248	9	35	12	2	8
Crushing and grinding machine operators	373	9	188	9	27	—	—	—	—	62
Slicing and cutting machine operators	986	124	685	69	112	—	—	6	—	11
Motion picture projectionists	57	6	12	6	—	—	—	—	—	308
Photographic process machine operators	1 074	504	188	96	47	17	—	—	—	—
Miscellaneous machine operators, n.e.c.	11 383	2 345	4 391	872	1 066	37	79	80	29	7
Machine operators, not specified	40 486	4 449	19 223	1 960	9 900	157	315	398	75	57
Fabricators, assemblers, and hand working occupations										
Welders and cutters	52 490	4 576	29 002	1 372	16 937	225	436	572	45	197
Solderers and brazers	39 645	463	22 358	241	15 017	153	205	305	23	40
Assemblers	10 761	3 711	4 858	989	1 126	42	109	154	16	5
Hand cutting and trimming occupations	104	26	61	10	8	—	10	—	—	147
Hand molding, casting, and forming occupations	1 397	86	1 286	52	748	19	112	94	6	—
Hand painting, coating and decorating occupations	41	21	—	—	—	—	—	14	—	—
Hand engraving and pinning occupations	54	16	4	—	—	—	—	—	—	—
Hand grinding and polishing occupations	183	85	139	55	18	11	—	—	—	—
Miscellaneous hand working occupations										
Production inspectors, testers, samplers, and weighers	33 593	3 904	18 299	1 976	9 145	99	1 021	196	—	3 097
Production inspectors, checkers, and examiners	26 648	2 459	14 519	707	8 411	87	973	179	—	1 975
Production testers	1 948	75	1 314	15	679	1	48	8	—	208
Production samplers and weighers	351	43	130	18	—	—	—	—	—	8
Graders and sorters, except agricultural	2 626	1 327	2 336	1 236	55	11	—	9	—	637
Transportation and material moving occupations										
Motor vehicle operators	1 534 881	95 938	1 439 489	93 538	197 896	2 641	68 213	136 621	86 640	813 418
Supervisors, motor vehicle operators	1 213 977	90 224	1 146 338	88 515	7 489	157	63 332	135 186	86 584	802 152
Truck drivers, heavy	14 242	699	13 495	675	45	—	886	56	431	10 751
Truck drivers, light	795 742	16 865	737 878	15 795	6 024	74	99	3 314	1 319	694 968
Driver-sales workers	106 721	5 990	102 103	5 563	561	16	271	37	303	14 209
Bus drivers	4 871	262	4 457	240	163	8	17	153	242	88 808
Toxicab drivers and chauffeurs	184 278	57 187	183 866	57 146	365	34	59 244	117 351	1 229	3 248
Parking lot attendants	105 439	9 071	103 759	8 995	267	25	1 865	12 726	83 060	2 394
Motor transportation occupations, n.e.c.	1 892	110	667	34	49	—	30	45	6	1 737
Rail transportation occupations										
Railroad conductors and yardmasters	186 469	2 520	185 414	2 431	178 916	2 182	4 503	1 168	18	331
Locomotive operating occupations	43 796	469	43 382	442	42 955	389	346	95	6	42
Railroad brake, signal, and switch operators	63 156	933	62 804	890	58 016	735	3 524	74	6	120
Rail vehicle operators, n.e.c.	70 989	882	70 516	863	70 219	857	37	53	—	148
Water transportation occupations	8 528	236	8 512	236	7 726	201	596	35	12	21
Ship captains and mates, except fishing boats	51 595	1 070	50 984	1 050	633	6	118	14	29	391
Sailors and deckhands	24 269	363	24 107	363	162	—	—	14	20	211
Marine engineers	22 566	463	22 447	463	142	—	—	26	9	66
Bridge, lock, and lighthouse tenders	2 046	22	1 998	16	38	—	27	—	—	101
Material moving equipment operators										
Supervisors, material moving equipment operators	82 840	2 124	56 653	1 542	10 858	296	240	210	9	10 544
Operating engineers	17 536	1 514	12 814	1 124	4 288	14	57	34	—	1 141
Laboratory equipment operators	3 665	81	3 454	81	—	—	58	13	—	254
Hoist and winch operators	3 750	60	3 274	23	5	—	—	—	—	7
Excavating and loading machine operators	7 563	49	5 119	32	2 540	16	52	25	—	14
Grader, dozer, and scraper operators	5 874	220	5 118	174	550	143	4	22	—	535
Industrial truck and tractor equipment operators	3 166	45	532	4	1 938	92	8	—	—	280
Miscellaneous material moving equipment operators	26 771	694	24 185	583	1 938	92	44	79	—	229
	17 396	729	10 765	516	838	25	37	37	9	5 250
										2 834

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States		Transportation, communications, and other public utilities									
		Transportation									
		Total		Railroads		Bus service and urban transit		Taxicab service		Trucking service	
Total	Female	Total	Female	Total	Female	Government workers	Other workers	Total	Female	Total	Female
453 292	28 547	313 296	21 644	50 402	1 330	3 600	189	3 934	622	264	15
2 873	184	2 267	135	79	—	11	—	22	7	3	—
2 951	131	1 700	59	139	—	216	—	201	20	37	—
3 771	182	522	12	297	12	12	—	6	—	40	—
3 495	157	457	5	246	5	12	—	6	—	40	—
276	25	65	7	51	7	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
16 622	339	3 182	53	1 985	20	97	—	51	3	297	10
7 414	442	3 786	140	2 055	50	258	6	120	10	604	10
243 114	9 211	182 072	7 488	2 448	74	239	—	783	38	97 852	2 990
63 396	1 423	7 132	136	2	—	15	—	5	—	7 007	136
18 878	235	18 814	235	54	—	—	—	—	—	234	6
3 727	633	2 530	437	169	27	62	—	27	—	544	89
884	126	560	103	79	—	8	—	7	—	102	7
156 229	6 794	153 036	6 577	2 144	47	154	—	744	38	89 965	2 752
6 306	262	4 553	156	125	6	355	35	580	28	2 477	38
11 602	1 732	10 410	1 607	1 017	76	894	115	1 419	379	2 825	146
13 290	5 444	12 651	5 244	101	15	13	—	63	27	4 019	1 325
145 349	10 620	92 153	6 750	42 156	1 077	1 505	33	689	110	11 335	522

Employed persons 16 years and over—Con

Operators, fabricators, and laborers—Con
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers,
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stevedores
 Stock handlers and baggers
 Machine feeders and offbearers
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample: see Introduction. For meaning of symbols, see appendix A]

United States

	Warehousing and storage		U.S. Postal Service		Water transportation		Air transportation		Pipe lines, except natural gas		Services incidental to transportation		Total
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
Employed persons 16 years and over	190 524	46 368	720 899	176 254	192 116	25 857	527 992	169 587	20 833	4 134	220 506	122 936	1 440 868
Managerial and professional specialty occupations	26 648	4 474	51 935	17 629	33 183	3 526	57 862	12 518	4 523	684	42 666	16 394	330 070
Executive, administrative, and managerial occupations	25 874	4 305	48 381	16 990	21 331	3 159	45 177	9 969	2 847	486	39 269	15 202	158 799
Legislators, chief executives, and general administrators;	—	—	—	—	—	—	—	—	—	—	—	—	—
public administrators;	—	—	—	—	—	—	—	—	—	—	—	—	—
and general administrators	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators and officials, public administration	—	—	—	—	—	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators, protective services	371	107	540	54	581	90	1 243	235	5	5	988	394	4 376
Financial managers	351	68	719	213	504	77	1 189	282	91	19	460	209	5 760
Personnel and labor relations managers	—	—	—	—	—	—	—	—	—	—	—	—	—
Purchasing managers	88	28	209	71	122	21	289	48	46	6	140	35	386
Managers, marketing, advertising, and public relations	906	71	151	11	1 126	126	3 640	589	44	6	2 417	838	13 048
Administrators, education and related fields	15	6	82	38	12	9	25	9	15	23	42	23	213
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, properties and real estate	85	31	111	16	67	6	99	15	76	7	32	—	76
Managers, food and kindred products	—	—	—	—	—	—	—	—	—	—	—	—	—
Postmasters and mail superintendents	—	—	—	—	—	—	—	—	—	—	—	—	—
Federal directors	6	—	31	13 522	—	—	17	7	—	—	5	—	6
Managers and administrators, n.e.c.	21 708	3 238	7 195	1 014	15 193	1 899	28 172	4 163	1 320	121	29 806	11 272	104 192
Salaries	20 271	2 984	7 195	1 014	14 050	1 677	27 533	4 062	1 290	121	27 067	10 260	103 233
Self-employed	1 437	254	—	—	1 143	222	639	101	30	—	2 741	1 022	939
Management related occupations	2 344	756	7 121	1 720	3 726	940	10 447	4 621	1 172	328	5 377	2 431	30 021
Accountants and auditors	1 179	520	1 648	395	2 125	770	5 241	2 870	682	194	3 320	1 539	15 564
Underwriters	—	—	—	—	16	—	7	—	—	—	—	—	10 601
Other financial officers	60	9	233	72	243	42	401	141	33	4	308	122	1 591
Management analysts	83	24	115	49	99	14	214	73	18	7	164	48	619
Personnel, training, and labor relations specialists	531	90	2 818	897	588	85	2 914	1 125	171	56	677	325	12 387
Purchasing agents and buyers, farm products	—	—	—	—	—	—	—	—	—	—	—	—	—
Buyers, wholesale and retail trade except farm products	—	—	—	—	—	—	—	—	—	—	—	—	—
Purchasing agents and buyers, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—
Business and promotion agents	—	—	—	—	—	—	—	—	—	—	—	—	—
Construction inspectors	30	—	2 008	209	68	6	224	28	7	22	92	23	225
Inspectors and compliance officers, except construction	25	5	70	14	19	—	138	46	46	29	115	43	1 870
Management related occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—
Professional specialty occupations	774	169	3 354	639	11 652	367	12 685	2 549	1 676	198	3 397	1 192	171 271
Engineers, architects, and surveyors	407	36	1 159	74	10 058	67	3 804	168	897	12	977	40	56 245
Architects	—	—	—	—	—	—	—	—	—	—	—	—	9 179
Engineers	—	—	—	—	—	—	—	—	—	—	—	—	5
Aerospace engineers	—	—	—	—	—	—	—	—	—	—	—	—	35
Metallurgical and materials engineers	—	—	—	—	—	—	—	—	—	—	—	—	9 137
Chemical engineers	—	—	—	—	—	—	—	—	—	—	—	—	56 000
Nuclear engineers	—	—	—	—	—	—	—	—	—	—	—	—	173
Civil engineers	—	—	—	—	—	—	—	—	—	—	—	—	28
Agricultural engineers	—	—	—	—	—	—	—	—	—	—	—	—	9
Electrical and electronic engineers	—	—	—	—	—	—	—	—	—	—	—	—	5
Industrial engineers	—	—	—	—	—	—	—	—	—	—	—	—	33
Mechanical engineers	—	—	—	—	—	—	—	—	—	—	—	—	9
Marine engineers and naval architects	—	—	—	—	—	—	—	—	—	—	—	—	5
Engineers, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	139
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	—	—	8 329
Mathematical and computer scientists	—	—	—	—	—	—	—	—	—	—	—	—	11 111
Computer systems analysts and scientists	—	—	—	—	—	—	—	—	—	—	—	—	1 089
Operations and systems researchers and analysts	—	—	—	—	—	—	—	—	—	—	—	—	885
Actuaries	—	—	—	—	—	—	—	—	—	—	—	—	43
Statisticians	—	—	—	—	—	—	—	—	—	—	—	—	16
Mathematical scientists, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	3 034
Mathematical scientists	—	—	—	—	—	—	—	—	—	—	—	—	461
Mathematical scientists, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	16
Mathematical scientists	—	—	—	—	—	—	—	—	—	—	—	—	7
Mathematical scientists, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	3 149
Mathematical scientists	—	—	—	—	—	—	—	—	—	—	—	—	8 977
Mathematical scientists, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	5 832
Mathematical scientists	—	—	—	—	—	—	—	—	—	—	—	—	1 916
Mathematical scientists, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	2 480
Mathematical scientists	—	—	—	—	—	—	—	—	—	—	—	—	914
Mathematical scientists, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	32
Mathematical scientists	—	—	—	—	—	—	—	—	—	—	—	—	621
Mathematical scientists, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	320
Mathematical scientists	—	—	—	—	—	—	—	—	—	—	—	—	22

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Transportation—Con.										Communications	
	Warehousing and storage		U.S. Postal Service		Water transportation		Air transportation		Pipe lines, except natural gas		Services incidental to transportation	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.												
Managerial and professional specialty occupations—Con.												
Professional specialty occupations—Con.												
Natural scientists	42	6	24	12	109	2	225	25	116	31	45	18
Physicists and astronomers	—	—	—	—	—	—	5	—	—	—	6	—
Chemists, except biochemists	21	—	14	7	30	—	27	6	63	21	8	8
Atmospheric and space scientists	—	—	5	5	—	—	159	—	—	—	—	—
Geologists and geodesists	—	—	—	—	8	—	—	—	—	—	—	—
Physical scientists, n.e.c.	6	—	5	—	21	—	—	—	46	10	—	—
Agricultural and food scientists	9	—	—	—	7	—	19	13	7	—	7	—
Biological and life scientists	—	—	—	—	24	2	13	6	—	—	10	—
Forestry and conservation scientists	—	—	—	—	13	—	2	—	—	—	7	—
Medical scientists	6	6	—	—	—	—	—	—	—	—	—	—
Health diagnosing occupations	7	—	—	—	17	—	65	6	—	—	—	—
Physicians	—	—	24	—	—	—	59	—	—	—	18	6
Dentists	—	—	24	—	6	—	6	6	—	—	11	—
Veterinarians	—	—	—	—	11	—	—	—	—	—	6	—
Optometrists	—	—	—	—	—	—	—	—	—	—	1	—
Podiatrists	7	—	—	—	—	—	—	—	—	—	—	—
Health diagnosing practitioners, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Health assessment and treating occupations	12	7	321	278	45	19	249	191	12	12	59	53
Registered nurses	12	7	301	278	19	13	185	172	12	12	39	39
Pharmacists	—	—	—	—	6	—	8	—	—	—	—	—
Dietitians	—	—	6	—	8	—	18	—	—	—	6	—
Therapists	—	—	14	—	12	6	38	12	—	—	14	14
Physicians assistants	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, postsecondary	7	—	23	—	—	—	59	13	15	—	8	—
Teachers, except postsecondary	16	11	269	21	68	7	3 257	544	—	—	96	27
Teachers, prekindergarten and kindergarten	—	—	1	—	—	—	—	—	—	—	—	—
Teachers, elementary and secondary school	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, special education	—	—	5	—	14	7	1 383	149	—	—	—	—
Teachers, n.e.c.	16	11	263	20	54	—	1 874	395	—	—	96	27
Counselors, educational and vocational	—	—	17	12	—	—	15	—	5	5	15	15
Librarians, archivists, and curators	6	—	52	22	6	6	75	66	5	5	68	41
Librarians	—	—	36	14	6	6	—	—	5	5	59	38
Archivists and curators	6	—	16	8	—	—	—	—	—	—	9	3
Social scientists and urban planners	18	6	76	11	233	44	587	164	31	3	275	69
Economists	18	6	63	11	228	44	550	157	31	3	273	69
Psychologists	—	—	13	—	—	—	22	—	—	—	—	—
Sociologists	—	—	—	—	—	—	—	7	—	—	—	—
Social scientists, n.e.c.	—	—	—	—	—	—	8	—	—	—	2	—
Urban planners	—	—	—	—	5	—	7	—	—	—	—	—
Social, recreation, and religious workers	11	—	66	16	14	14	46	20	—	—	82	69
Social workers	—	—	49	9	9	9	46	20	—	—	36	36
Recreation workers	11	—	10	7	7	5	—	—	—	—	46	33
Clergy	—	—	7	—	—	—	—	—	—	—	—	—
Religious workers, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Lawyers and judges	—	—	176	24	145	26	388	144	98	20	98	13
Judges	—	—	176	24	145	26	388	144	98	20	98	13
Writers, artists, entertainers, and athletes	165	95	320	44	78	87	1 724	551	141	42	1 304	729
Authors	8	—	—	—	—	—	—	—	—	—	—	—
Technical writers	—	—	—	—	37	—	307	53	5	5	54	47
Designers and composers	48	30	5	—	76	13	156	17	20	8	127	34
Musicians and directors	—	—	—	—	46	7	—	—	24	7	—	—
Actors and directors	—	—	12	—	17	8	44	12	—	—	25	—
Painters, sculptors, craft-artists, and artist printmakers	11	8	89	8	4	—	52	21	19	8	104	72
Photographers	—	—	—	—	13	7	84	10	—	—	17	5
Dancers	2	2	—	—	15	15	9	4	—	—	—	—
Artists, performers, and related workers, n.e.c.	—	—	—	—	28	15	12	—	—	—	48	36
Editors and reporters	34	29	66	12	33	16	158	57	10	—	148	87
Public relations specialists	62	18	141	19	157	21	850	372	57	14	627	387
Announcers	—	—	7	5	—	—	7	—	—	—	—	—
Athletes	—	—	—	—	329	—	29	—	6	—	154	61
Communications												
Total	1 066	286	—	—	—	—	—	—	—	—	—	—
Female	59	6	—	—	—	—	—	—	—	—	—	—
Male	202	99	—	—	—	—	—	—	—	—	—	—
Female	681	140	—	—	—	—	—	—	—	—	—	—
Male	14	7	—	—	—	—	—	—	—	—	—	—
Female	12	6	—	—	—	—	—	—	—	—	—	—
Male	26	6	—	—	—	—	—	—	—	—	—	—
Female	14	6	—	—	—	—	—	—	—	—	—	—
Male	58	22	—	—	—	—	—	—	—	—	—	—
Female	—	—	—	—	—	—	—	—	—	—	—	—
Male	237	46	—	—	—	—	—	—	—	—	—	—
Female	165	29	—	—	—	—	—	—	—	—	—	—
Male	7	7	—	—	—	—	—	—	—	—	—	—
Female	—	—	—	—	—	—	—	—	—	—	—	—
Male	48	6	—	—	—	—	—	—	—	—	—	—
Female	—	—	—	—	—	—	—	—	—	—	—	—
Male	11	4	—	—	—	—	—	—	—	—	—	—
Female	545	433	—	—	—	—	—	—	—	—	—	—
Male	444	417	—	—	—	—	—	—	—	—	—	—
Female	6	7	—	—	—	—	—	—	—	—	—	—
Male	88	9	—	—	—	—	—	—	—	—	—	—
Female	—	—	—	—	—	—	—	—	—	—	—	—
Male	165	88	—	—	—	—	—	—	—	—	—	—
Female	1 922	1 188	—	—	—	—	—	—	—	—	—	—
Male	8	—	—	—	—	—	—	—	—	—	—	—
Female	14	—	—	—	—	—	—	—	—	—	—	—
Male	1 900	1 830	—	—	—	—	—	—	—	—	—	—
Female	157	93	—	—	—	—	—	—	—	—	—	—
Male	1 112	606	—	—	—	—	—	—	—	—	—	—
Female	322	234	—	—	—	—	—	—	—	—	—	—
Male	790	372	—	—	—	—	—	—	—	—	—	—
Female	4 680	1 877	—	—	—	—	—	—	—	—	—	—
Male	4 550	1 863	—	—	—	—	—	—	—	—	—	—
Female	114	14	—	—	—	—	—	—	—	—	—	—
Male	16	—	—	—	—	—	—	—	—	—	—	—
Female	—	—	—	—	—	—	—	—	—	—	—	—
Male	226	122	—	—	—	—	—	—	—	—	—	—
Female	65	36	—	—	—	—	—	—	—	—	—	—
Male	101	37	—	—	—	—	—	—	—	—	—	—
Female	33	23	—	—	—	—	—	—	—	—	—	—
Male	56	7	—	—	—	—	—	—	—	—	—	—
Female	32	7	—	—	—	—	—	—	—	—	—	—
Male	1 420	337	—	—	—	—	—	—	—	—	—	—
Female	337	13	—	—	—	—	—	—	—	—	—	—
Male	94 519	25 659	—	—	—	—	—	—	—	—	—	—
Female	435	803	—	—	—	—	—	—	—	—	—	—
Male	1 747	911	—	—	—	—	—	—	—	—	—	—
Female	3 289	1 270	—	—	—	—	—	—	—	—	—	—
Male	1 011	231	—	—	—	—	—	—	—	—	—	—
Female	19 923	6 174	—	—	—	—	—	—	—	—	—	—
Male	1 477	597	—	—	—	—	—	—	—	—	—	—
Female	7 258	864	—	—	—	—	—	—	—	—	—	—
Male	31	13	—	—	—	—	—	—	—	—	—	—
Female	707	198	—	—	—	—	—	—	—	—	—	—
Male	14 006	4 986	—	—	—	—	—	—	—	—	—	—
Female	5 066	2 484	—	—	—	—	—	—	—	—	—	—
Male	38 526	7 072	—	—	—	—	—	—	—	—	—	—
Female	33	—	—	—	—	—	—	—	—	—	—	—
Male	154	61	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

United States

[illegible]

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States														
Transportation, communications, and other public utilities—Con														
Transportation—Con														
Warehousing and storage		U.S. Postal Service		Water transportation		Air transportation		Pipe lines, except natural gas		Services incidental to transportation		Total		Communications
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
7 714	7 590	4 930	4 644	7 300	7 095	14 478	14 209	1 326	1 297	12 338	12 047	65 375	63 797	Total
6 502	6 429	3 257	3 144	6 219	6 087	12 762	12 601	1 141	1 119	9 792	9 645	45 448	45 448	
50	50	596	571	56	51	143	143	30	30	141	133	2 501	2 493	
1 162	1 111	1 077	929	1 025	957	1 573	1 465	165	148	2 405	2 269	16 595	15 726	
848	779	1 899	1 113	1 700	1 069	71 011	42 009	96	77	7 607	6 329	18 342	15 496	
26	13	278	185	26	26	217	122	13	—	76	38	969	635	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
22	10	282	164	1 103	516	69 051	40 390	29	23	5 684	4 626	251	138	
604	600	1 134	655	486	449	1 406	1 264	48	48	1 363	1 311	5 302	5 062	
196	136	205	109	85	78	337	233	6	6	464	354	11 820	9 661	
2 446	1 418	2 110	819	850	476	1 912	1 036	173	138	1 930	1 403	80 924	69 173	
6	6	—	—	—	—	7	7	—	—	—	—	308	240	
54	35	18	11	15	10	99	80	—	—	71	65	357	217	
1 797	960	324	76	199	64	1 004	262	34	27	459	324	67 327	57 700	
52	43	507	309	66	19	200	191	23	17	68	46	1 657	1 504	
14	14	7	7	7	—	14	6	5	5	6	6	301	194	
426	314	1 036	337	512	346	487	420	105	83	1 237	904	4 092	3 518	
97	46	218	79	51	37	101	70	6	6	89	58	6 882	5 800	
6 590	5 842	4 633	1 837	4 960	3 502	9 197	7 425	476	311	11 358	8 925	30 442	27 321	
5 120	4 610	1 881	791	3 398	2 770	7 172	5 976	387	265	9 786	7 978	19 548	17 705	
286	255	2 288	833	696	340	812	531	55	33	730	230	4 383	4 071	
670	567	77	20	398	260	457	387	13	13	622	480	4 164	3 789	
507	403	72	3	430	104	665	464	10	—	483	141	1 886	1 321	
7	7	315	190	38	28	91	67	11	—	110	96	461	435	
93	74	408	112	41	26	104	60	31	21	152	60	737	472	
8	2	107	56	9	—	21	13	9	9	81	19	358	191	
22	15	203	29	32	26	71	35	22	12	71	41	341	265	
63	57	98	27	—	—	—	—	—	—	—	—	—	—	
315	271	467	218	199	163	495	366	57	50	374	339	138 478	122 297	
308	266	244	169	169	163	495	366	39	39	347	331	136 791	121 063	
7	5	20	49	24	—	—	—	18	11	13	8	1 491	1 101	
—	—	203	49	6	—	—	—	—	—	—	—	196	101	
696	216	523 954	128 737	374	41	2 108	353	55	29	1 478	464	5 957	2 808	
—	—	267 035	95 511	—	—	—	—	—	—	—	—	—	—	
—	—	256 593	33 179	—	—	—	—	—	—	—	—	—	—	
569	194	—	—	275	25	—	—	—	—	—	—	—	—	
127	22	326	47	99	16	1 088	193	11	2	748	214	1 887	647	
16 372	4 526	5 479	1 121	6 773	1 021	35 296	6 448	606	96	6 822	2 136	29 356	19 519	
582	144	1 033	182	1 114	207	649	117	170	10	516	223	7 525	5 593	
447	173	1 050	273	255	46	3 671	1 062	220	26	573	284	7 708	5 616	
6 908	1 460	826	272	2 287	429	24 767	4 205	19	—	3 759	1 137	2 781	1 760	
6 230	1 972	1 217	200	815	162	4 963	716	144	33	698	158	7 559	3 418	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1 800	491	119	27	2 023	48	413	106	18	—	916	178	370	237	
8	8	—	—	—	—	17	2	—	—	27	34	34	27	
253	134	1 194	156	248	121	613	190	35	27	288	116	1 178	900	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
144	144	40	11	31	8	203	50	—	—	45	40	2 201	1 968	
473	365	1 028	373	710	311	1 736	830	53	19	1 049	674	9 627	6 635	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
401	330	924	346	579	235	1 467	653	40	16	906	597	7 099	4 837	
61	11	40	12	13	6	21	7	—	—	36	17	75	70	
11	24	64	15	118	70	248	170	13	3	107	60	2 453	1 728	
6 023	4 557	9 852	4 355	4 555	2 362	11 454	7 878	959	578	9 612	6 559	106 878	93 214	
4 580	3 515	7 072	3 220	3 027	1 424	6 031	4 224	475	332	6 385	4 309	72 159	64 956	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	8	2	7	—	6	—	—	—	22	5	322	285	
732	651	1 067	703	790	634	2 400	2 196	284	175	1 238	1 049	8 838	7 349	
265	183	433	141	193	113	821	554	55	31	415	206	15 103	13 188	
—	—	58	27	—	—	14	7	—	—	—	—	51	36	
446	208	1 214	262	538	191	2 182	897	145	40	1 552	990	10 405	7 400	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States		Transportation, communications, and other public utilities—Con.										Communications	
		Transportation—Con.											
Warehousing and storage	Total	U.S. Postal Service		Water transportation		Air transportation		Pipe lines, except natural gas		Services incidental to transportation		Total	
		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	5 605	22 314	4 046	9 621	1 890	92 563	60 258	595	70	8 608	3 670	16 993	6 658
Private household occupations	1 466	2 657	200	1 778	99	5 972	1 579	88	2	856	84	2 680	594
Protective service occupations	22	79	9	45	18	50	—	16	—	20	—	186	37
Supervisors, protective service occupations	—	—	—	—	—	—	—	7	—	—	—	7	—
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	22	79	9	45	18	143	—	9	—	20	—	181	37
Supervisors, guards	12	245	25	62	6	720	5	—	—	2	—	30	7
Firefighting and fire prevention occupations	6	5	—	18	41	—	—	—	—	—	—	21	7
Fire inspection and fire prevention occupations	6	240	25	44	6	679	5	—	—	2	—	9	—
Firefighting occupations	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	1 432	2 333	166	1 671	75	5 059	1 574	72	2	834	84	2 462	550
Guards	—	7	—	—	—	21	14	—	—	25	—	35	18
Crossing guards	1 432	2 318	151	1 659	75	5 005	1 551	72	2	804	77	2 360	525
Guards and police, except public service	—	8	—	12	—	33	9	—	—	5	—	67	7
Protective service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—
Service occupations, except protective and household	4 139	19 657	3 846	7 843	1 791	86 591	58 679	507	68	7 752	3 586	14 313	6 064
Food preparation and service occupations	209	257	129	3 834	1 070	5 445	2 944	17	17	479	260	1 528	45
Supervisors, food preparation and service occupations	—	47	41	—	—	562	153	—	—	2	—	57	—
Bakers	—	9	—	62	20	154	67	—	—	46	14	7	—
Waiters and waitresses	27	33	19	481	147	511	409	17	17	125	110	220	175
Cooks, except short order	104	49	23	2 904	820	1 503	815	—	—	211	75	293	209
Short-order cooks	—	6	—	26	10	14	9	—	—	2	—	2	—
Food counter, fountain and related occupations	6	56	36	27	27	60	48	—	—	20	20	360	334
Kitchen workers, food preparation	9	—	—	20	13	495	299	—	—	29	20	273	85
Waiters' and waitresses' assistants	12	8	8	25	17	479	239	—	—	44	24	510	88
Miscellaneous food preparation occupations	21	49	2	144	16	1 667	905	—	—	44	24	208	128
Health service occupations	25	108	32	45	27	161	86	—	—	98	76	113	99
Dental assistants	—	—	—	14	14	60	51	—	—	—	—	5	—
Health aides, except nursing	12	78	16	5	5	46	—	—	—	26	11	29	22
Nursing aides, orderlies, and attendants	13	20	16	26	8	55	35	—	—	72	65	79	72
Cleaning and building service occupations, except household	3 759	19 211	3 659	2 301	290	11 810	1 929	435	44	1 884	363	11 458	4 202
Supervisors, cleaning and building service workers	86	599	38	119	821	821	310	23	—	77	—	510	88
Maid and housemen	192	636	240	155	63	861	310	20	9	206	108	953	625
Janitors and cleaners	3 122	17 391	3 251	2 000	227	10 083	1 558	392	35	1 571	240	9 909	3 428
Elevator operators	337	472	106	18	—	28	—	—	—	30	15	69	61
Pest control occupations	12	113	24	19	—	—	—	—	—	—	—	17	—
Personal service occupations	146	81	26	1 663	404	69 175	53 720	55	7	5 291	2 887	1 214	717
Supervisors, personal service occupations	90	16	9	47	2	2 202	1 058	4	—	95	37	67	45
Barbers	—	—	—	8	—	—	—	—	—	30	—	22	17
Hairdressers and cosmetologists	—	3	3	—	—	—	—	—	—	—	—	318	176
Attendants, amusement and recreation facilities	11	13	—	102	13	25	14	12	—	58	12	21	14
Guides	—	—	—	198	47	225	139	—	—	4 525	2 459	177	59
Ushers	—	—	—	6	6	67	57	8	—	9	9	50	12
Public transportation attendants	16	17	—	946	235	61 503	51 575	—	—	227	161	—	—
Baggage porters and bellhops	—	—	—	134	25	4 469	393	9	—	17	6	—	—
Welfare service aides	5	4	4	14	7	209	199	—	—	95	64	138	83
Child care workers, except private household	24	28	10	188	75	428	275	22	7	235	130	421	311
Personal service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—
Farming, forestry, and fishing occupations	67	77	5	616	12	584	83	17	—	544	161	327	36
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	8	—	—	20	—	—	—	—	—	6	6	7	7
Related agricultural occupations	45	70	5	216	6	565	83	17	—	479	135	261	18
Supervisors, related agricultural occupations	—	—	—	2	—	50	43	—	—	17	—	8	—
Groundskeepers and gardeners, except farm	43	63	5	204	6	497	16	17	—	369	5	251	16
Animal caretakers, except farm	2	—	—	8	—	18	16	—	—	—	—	2	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	—	2	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Transportation, communications, and other public utilities—Con.									
	Transportation—Con					Communications				
	Warehousing and storage	U.S. Postal Service	Water transportation	Air transportation	Pipe lines, except natural gas	Services incidental to transportation	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con.										
Forestry and logging occupations	14	9	66	9	—	26	46	20	—	11
Supervisors, forestry and logging workers	—	—	—	—	—	—	—	—	—	—
Forestry workers, except logging	5	7	4	4	—	—	10	—	—	—
Timber cutting and logging occupations	9	—	62	5	—	26	36	20	—	11
Fishers, hunters, and trappers	—	—	314	6	—	33	13	—	—	—
Captains and other officers, fishing vessels	—	—	113	—	—	19	—	—	—	—
Fishers	—	—	189	6	—	14	13	—	—	—
Hunters and trappers	—	—	12	—	—	—	—	—	—	—
Precision production, craft, and repair occupations	17 363	1 792	13 777	169	—	7 207	341 990	626	—	33 751
Mechanics and repairers	4 103	125	6 667	74	1 985	3 071	317 217	87	—	29 068
Supervisors, mechanics and repairers	168	6	527	35	1 095	309	11 801	41	—	740
Mechanics and repairers, except supervisors	3 935	117	6 140	39	85	2 762	305 416	46	—	28 362
Vehicle and mobile equipment mechanics and repairers	1 554	22	3 093	27	1 010	1 528	3 428	13	—	162
Automobile mechanics	763	3	317	17	19	504	2 765	5	—	133
Bus, truck, and stationary engine mechanics	298	351	591	4	604	200	246	8	—	18
Small engine mechanics	16	142	291	5	—	158	75	—	—	—
Aircraft engine mechanics	14	—	108	6	—	58	25	—	—	—
Automobile body and related repairers	9	190	49	—	—	79	51	—	—	—
Aircraft mechanics, except engine	7	6	44	—	—	7	14	—	—	—
Heavy equipment mechanics	432	27	553	—	135	79	233	—	—	—
Farm equipment mechanics	13	—	—	—	—	5	19	—	—	—
Industrial machinery repairers	521	2 246	492	6	—	257	1 629	—	—	91
Machinery maintenance occupations	34	21	113	—	11	115	115	—	—	—
Electrical and electronic equipment repairers	415	76	154	—	111	130	295 805	1	—	27 625
Electronic repairers, communications and industrial equipment	52	151	110	—	30	67	16 386	1	—	640
Data processing equipment repairers	9	103	—	—	—	12	1 345	—	—	117
Household appliance and power tool repairers	60	5	—	—	—	5	419	—	—	43
Telephone line installers and repairers	55	5	—	—	—	—	56 251	—	—	2 811
Telephone installers and repairers	237	80	30	—	23	34	221 169	—	—	23 984
Miscellaneous electrical and electronic equipment repairers	2	50	14	—	—	12	235	—	—	30
Heating, air conditioning, and refrigeration mechanics	308	5	189	—	—	52	757	7	—	23
Miscellaneous mechanics and repairers	1 103	3 385	2 099	6	53	680	3 682	25	—	427
Camera, watch, and musical instrument repairers	—	5	—	—	8	—	50	—	—	7
Locksmiths and safe repairers	21	22	18	—	—	5	—	—	—	6
Office machine repairers	—	1 315	6	6	—	—	—	—	—	—
Mechanical controls and valve repairers	3	—	23	—	—	10	273	—	—	42
Elevator installers and repairers	25	54	—	—	—	—	228	—	—	15
Millwrights	223	37	71	—	6	52	95	—	—	21
Specified mechanics and repairers, n.e.c.	360	527	1 216	7	21	329	1 257	5	—	23
Not specified mechanics and repairers	471	1 425	783	—	18	284	1 524	20	—	157
Construction trades	1 137	936	3 272	38	51	1 386	11 700	85	—	957
Supervisors, construction occupations	147	145	237	—	—	273	5 617	12	—	199
Supervisors, brickmasons, stonemasons, and tile setters	—	—	—	—	—	—	—	—	—	—
Supervisors, carpenters and related workers	—	7	19	—	—	28	25	—	—	3
Supervisors, electricians and power transmission installers	15	16	43	—	45	19	159	14	—	14
Supervisors, painters, paperhangers, and plasterers	—	—	—	—	—	15	5	—	—	—
Supervisors, plumbers, pipefitters, and steamfitters	—	—	—	—	—	5	26	—	—	—
Supervisors, n.e.c.	132	122	175	—	60	206	5 395	12	—	182
Construction trades, except supervisors	990	791	3 035	38	51	1 113	6 083	73	—	758
Brickmasons and stonemasons	21	9	18	—	—	16	47	9	—	8
Tile setters, hard and soft	4	—	—	—	2	10	14	10	—	—
Carpenter installers	27	—	—	—	—	—	26	—	—	—
Carpenters	345	123	1 011	17	9	408	653	7	—	51
Drywall installers	—	—	—	—	—	—	—	—	—	—
Electricians	264	398	1 165	5	14	297	1 713	4	—	219
Electrical power installers and repairers	8	—	42	—	6	15	2 669	13	—	115
Painters, construction and maintenance	124	172	356	9	8	141	188	14	—	31
Paperhangers	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

United States

United States

Employed persons 16 years and over—Con.
Precision production, craft, and repair occupations—Con.
Construction trades—Con.
Construction trades, except supervisors—Con.
Plasterers
Plumbers, pipefitters, and steamfitters
Concrete and terrazzo finishers
Glaziers
Insulation workers
Paving, surfacing, and tamping equipment operators
Roofers
Sheetmetal duct installers
Structural metal workers
Drillers, earth
Construction trades, n.e.c.
Extractive occupations
Supervisors, extractive occupations
Drillers, oil well
Explosives workers
Mining machine operators
Mining occupations, n.e.c.
Precision production occupations
Supervisors, production occupations
Precision metalworking occupations
Tool and die makers
Precision assemblers, metal
Machinists
Boilermakers
Precision grinders, filers, and tool sharpeners
Patternmakers and model makers, metal
Lay-out workers
Precious stones and metals workers (jewelers)
Engravers, metal
Steel metal workers
Miscellaneous precision metal workers
Precision woodworking occupations
Patternmakers and model makers, wood
Cabinet makers and bench carpenters
Furniture and wood finishers
Miscellaneous precision woodworkers
Precision textile, apparel, and furnishings machine workers
Dressmakers
Tailors
Upholsterers
Shoe repairers
Apparel and fabric patternmakers
Miscellaneous precision apparel and fabric workers
Precision workers, assorted materials
Hand molders and shapers, except jewelers
Patternmakers, lay-out workers, and cutters
Optical goods workers
Dental laboratory and medical appliance technicians
Bookbinders
Electrical and electronic equipment assemblers
Miscellaneous precision workers, n.e.c.
Precision food production occupations
Butchers and meat cutters
Bakers
Food batchmakers
Precision inspectors, testers, and related workers
Inspectors, testers, and graders
Adjusters and calibrators

Warehousing and storage	U.S. Postal Service		Water transportation		Air transportation		Pipe lines, except natural gas		Services incidental to transportation		Total	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total
—	—	—	—	—	—	—	—	—	—	—	—	—
108	—	82	323	7	16	397	7	210	—	70	—	422
13	—	—	15	—	6	6	—	5	—	7	—	16
7	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	10	—	9	9	—	13	—	7	—	54
—	—	—	9	—	—	—	—	—	—	6	—	—
14	—	—	9	—	12	—	—	—	—	—	—	11
21	—	3	69	—	6	6	—	—	—	—	—	—
—	—	4	14	—	—	—	—	2	—	—	—	5
34	—	4	86	—	77	—	—	1 010	—	—	—	7
14	14	—	174	—	62	—	54	129	9	132	9	258
6	6	—	45	—	7	—	6	6	20	20	7	21
—	—	—	83	—	7	—	—	11	—	6	—	—
—	—	—	9	—	39	—	7	2	—	7	—	7
8	—	—	20	—	6	—	—	4	—	7	—	19
—	—	—	17	—	3	—	—	37	—	7	—	15
12 109	1 640	1 644	3 664	57	13 402	839	2 590	91	2 730	454	—	12 997
8	552	883	2 229	46	5 563	557	1 399	67	2 177	353	—	8 133
234	21	295	785	—	3 640	70	94	—	121	14	—	2 423
20	10	6	—	—	131	—	—	—	10	—	—	126
6	4	—	—	—	—	—	—	—	7	—	—	128
174	7	246	530	—	1 879	21	77	—	80	14	—	389
13	—	29	59	—	68	7	15	2	5	2	—	29
—	—	—	—	—	11	—	—	—	—	—	—	68
—	—	—	—	—	8	6	—	—	—	—	—	2
8	—	7	157	—	9	—	—	—	—	—	—	16
—	—	—	—	—	—	—	—	—	—	—	—	7
—	7	—	—	—	14	7	—	—	—	—	—	55
13	—	7	39	—	20	—	—	—	—	—	—	19
—	—	—	—	—	1 489	29	—	—	13	—	—	38
—	—	—	—	—	—	—	—	—	6	—	—	8
79	8	—	18	—	34	—	—	—	7	7	—	30
—	—	—	—	—	—	—	—	—	—	—	—	—
45	8	—	—	—	26	—	—	—	—	—	—	27
34	—	—	—	—	—	—	—	—	—	—	—	5
—	—	—	—	—	8	—	—	—	—	—	—	—
84	49	29	18	4	136	49	40	7	7	7	—	22
44	41	15	22	—	25	19	6	6	40	6	—	5
6	—	—	—	—	—	—	—	—	22	—	—	29
8	—	14	—	—	105	30	—	—	6	—	—	10
—	—	—	—	—	6	—	—	—	5	—	—	—
9	—	—	8	—	—	—	—	—	—	—	—	8
17	8	—	14	4	—	—	—	—	7	—	—	8
42	19	8	21	—	118	44	36	6	96	53	—	11
12	—	—	5	—	7	7	—	—	11	—	—	—
—	—	—	5	—	—	—	—	—	2	—	—	136
11	11	—	—	—	—	—	—	—	—	—	—	6
—	—	—	—	—	28	6	—	—	23	5	—	5
8	8	—	—	—	—	—	—	3	12	12	—	20
3	—	—	—	—	43	—	18	6	43	34	—	197
8	8	8	11	—	33	31	18	3	2	—	—	84
—	—	—	—	—	—	—	5	—	57	—	—	38
3 022	978	—	38	—	111	—	—	—	57	—	—	10
2 939	933	—	12	—	17	—	—	—	57	—	—	38
—	—	—	26	—	81	—	5	—	—	—	—	25
77	45	—	—	—	13	—	—	—	—	—	—	13
38	6	26	46	—	3 318	102	24	—	15	5	—	10
38	6	26	46	—	3 318	102	24	—	—	—	—	38
—	—	—	—	—	—	—	—	—	—	—	—	2 026
—	—	—	—	—	—	—	—	—	—	—	—	775
—	—	—	—	—	—	—	—	—	—	—	—	775

Introduction. For definitions of terms, see appendix A]

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States		Transportation, communications, and other public utilities—Con.										Communications	
		Transportation—Con.											
Warehousing and storage		U.S. Postal Service		Water transportation		Air transportation		Pipe lines, except natural gas		Services incidental to transportation		Total	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
Operators, fabricators, and laborers—Con.													
Machine operators, assemblers, and inspectors—Con.													
Machine operators and tenders, except precision—Con.													
Machine operators, assorted materials—Con.													
Folding machine operators		63	31	—	—	—	—	—	—	—	—	—	—
Furnace, kiln, and oven operators, except food		147	2	298	6	115	6	9	—	42	—	4	—
Crushing and grinding machine operators		101	9	7	—	33	—	—	—	2	—	56	—
Slicing and cutting machine operators		131	23	35	9	33	—	24	—	32	25	22	—
Motion picture projectionists		—	—	—	—	6	—	—	—	6	—	30	—
Photographic process machine operators		37	15	—	—	24	15	14	—	19	13	536	252
Miscellaneous machine operators, n.e.c.		842	285	317	32	192	72	118	9	151	42	1 772	968
Machine operators, not specified		1 779	619	870	67	2 571	237	301	19	589	174	2 842	1 459
Fabricators, assemblers, and hand working occupations													
Welders and cutters		1 250	362	323	37	2 675	65	519	—	794	141	3 745	2 311
Solderers and brazers		336	13	2 296	5	959	14	473	—	354	—	269	50
Assemblers		7	—	—	—	14	—	—	—	11	—	144	—
Hand cutting and trimming occupations		824	312	322	47	810	239	46	—	391	125	3 198	2 080
Hand molding, casting, and forming occupations		24	5	—	—	—	—	—	—	8	—	16	6
Hand painting, coating and decorating occupations		—	—	5	—	54	—	—	—	6	—	19	—
Hand engraving and printing occupations		24	12	23	4	—	—	—	—	—	—	57	34
Hand grinding and polishing occupations		—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous hand working occupations		35	20	29	—	37	14	—	—	13	5	22	16
Production inspectors, testers, samplers, and weighers													
Production inspectors, checkers, and examiners		2 251	1 282	273	51	381	32	46	—	650	117	3 313	1 895
Production testers		774	236	353	26	495	31	483	20	561	69	3 063	1 322
Production samplers and weighers		24	—	13	—	35	—	14	—	18	—	152	17
Graders and sorters, except agricultural		106	—	9	—	58	15	—	—	71	30	92	50
Transportation and material moving occupations													
Motor vehicle operators		34 805	898	66 123	1 166	11 392	645	1 428	11	12 396	810	5 932	1 000
Supervisors, motor vehicle operators		19 536	399	3 492	107	9 175	544	740	—	8 745	1 547	3 531	675
Truck drivers, heavy		88	—	19	—	80	7	27	—	94	7	47	—
Truck drivers, light		16 205	245	2 176	41	4 296	117	493	—	3 396	265	1 685	224
Driver-sales workers		2 326	55	247	5	2 199	183	122	—	1 335	239	1 318	371
Bus drivers		312	20	120	19	71	—	5	—	80	11	56	12
Taxicab drivers and chauffeurs		66	31	46	39	945	152	58	—	1 739	474	35	21
Parking lot attendants		526	48	524	8	915	44	35	—	1 972	525	385	31
Motor transportation occupations, n.e.c.		10	—	22	3	259	41	—	—	82	26	5	—
Rail transportation occupations													
Railroad conductors and yardmasters		150	—	123	—	53	—	—	—	135	35	898	89
Locomotive operating occupations		21	—	28	—	12	—	—	—	73	35	211	27
Railroad brake, signal, and switch operators		75	—	39	—	35	—	—	—	51	—	266	43
Rail vehicle operators, n.e.c.		46	—	11	—	6	—	—	—	2	—	414	19
Water transportation occupations													
Ship captains and mates, except fishing boats		40	—	46 648	782	835	37	92	—	2 132	193	58	12
Sailors and deckhands		—	—	22 793	330	664	24	42	—	201	7	2	—
Marine engineers		10	—	21 484	436	133	13	35	—	542	14	22	—
Bridge, lock, and lighthouse tenders		28	—	1 771	17	17	—	—	—	7	—	10	6
Material moving equipment operators													
Supervisors, material moving equipment operators		15 079	499	15 840	277	1 329	64	596	11	1 384	172	24	6
Operating engineers		496	12	3 218	42	1 166	6	70	7	89	2	1 445	224
Haulage equipment operators		145	—	3 115	7	176	—	82	—	99	—	130	25
Hoist and tower operators		30	—	3 479	70	11	—	2	—	148	9	284	27
Excavating and loading machine operators		245	—	1 150	9	6	—	—	—	15	8	47	18
Grader, dozer, and tractor equipment operators		41	—	1 536	7	26	—	24	—	136	7	37	—
Industrial truck and tractor equipment operators		18	—	56	—	26	—	54	—	23	—	268	—
Miscellaneous material moving equipment operators		13 024	358	2 304	9	509	20	42	—	650	5	322	62
		1 058	129	4 851	95	453	32	276	4	259	4	335	92

Employed Persons by Detailed Industry and Sex: 1980—Con.

United States

Transportation, communications, and other public utilities—Con.													
Transportation—Con.												Communications	
Warehousing and storage		U.S. Postal Service		Water transportation		Air transportation		Pipe lines, except natural gas		Services incidental to transportation		Total	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
46 144	7 134	24 614	3 398	26 805	616	29 372	2 240	973	60	6 799	977	9 212	2 521
103	17	495	68	95	—	1 210	21	—	—	63	16	114	35
45	11	121	—	47	5	126	7	5	—	9	—	46	—
54	—	15	—	44	—	34	—	14	—	6	—	25	15
54	—	15	—	44	—	34	—	14	—	6	—	17	7
—	—	—	—	—	—	—	—	14	—	—	—	8	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
142	4	23	—	199	9	137	—	113	—	138	7	1 221	83
133	18	151	—	153	11	132	16	130	7	50	12	463	173
16 807	809	21 796	2 722	21 420	276	17 696	495	152	—	2 861	84	1 672	286
42	—	10	—	31	—	14	—	—	—	6	—	23	—
30	—	—	—	18 064	223	100	—	24	—	308	6	15	—
1 202	279	21	6	95	—	355	34	53	—	53	2	312	121
234	87	41	—	41	—	18	—	27	—	44	9	15	5
15 299	443	21 765	2 716	3 189	53	17 209	461	99	—	2 450	67	1 307	160
62	—	232	2	137	10	448	29	4	—	25	8	303	81
193	13	144	—	300	36	3 244	784	6	6	310	52	265	76
5 927	2	253	42	285	70	548	259	18	18	1 418	620	315	137
22 678	3 400	1 384	564	4 125	199	5 797	629	531	29	1 919	1 178	4 788	1 635

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Construction, equipment cleaners, helpers, and laborers	-----
Surveyors, handlers, equipment cleaners, and laborers, n.e.c.	-----
Helpers, mechanics and repairers	-----
Helpers, construction and extractive occupations	-----
Helpers, construction trades	-----
Helpers, surveyor	-----
Helpers, extractive occupations	-----
Construction laborers	-----
Production helpers	-----
Freight, stock, and material handlers	-----
Garbage collectors	-----
Streetcar, trolley, and taxicab drivers	-----
Machine feeders and operators	-----
Machine leaders and officers	-----
Freight, stock, and material handlers, n.e.c.	-----
Garage and service station related occupations	-----
Vehicle washers and equipment cleaners	-----
Hand packers and packagers	-----
Laborers, except construction	-----

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Communications—Con.						Utilities and sanitary services					
	Radio and television broadcasting			Telephone (wire and radio)			Telegraph and miscellaneous communication services			Total		
	Total		Female	Total		Female	Total		Female	Total		Female
	Total	Female		Total	Female		Total	Female		Total	Female	
United States												
Employed persons 16 years and over	215 853	74 219		1 142 211	544 333		82 804	27 542		1 372 626	231 230	
Managerial and professional specialty occupations	128 614	32 836		182 375	63 763		19 081	4 442		205 166	25 020	
Executive, administrative, and managerial occupations	32 406	10 012		113 580	44 496		12 813	3 450		112 435	16 744	
Legislators, chief executives, and general administrators	—	—		—	—		—	—		—	—	
Public administration	—	—		—	—		—	—		—	—	
Administrators and officials, public administration	—	—		—	—		—	—		—	—	
Federal	—	—		—	—		—	—		—	—	
State	—	—		—	—		—	—		—	—	
Local	—	—		—	—		—	—		—	—	
Administrators, protective services	11	7		—	—		—	—		—	—	
Financial managers	1 011	381		2 915	833		450	117		3 381	15	
Personnel and labor relations managers	523	267		4 938	2 208		299	77		2 657	522	
Purchasing managers	69	15		255	56		62	19		937	70	
Managers, marketing, advertising, and public relations	5 109	1 066		6 799	1 496		1 140	192		2 161	121	
Managers, education and health	60	39		153	33		—	—		181	18	
Managers, medicine and health	—	—		—	—		—	—		—	—	
Managers, property and real estate	—	—		—	—		—	—		—	—	
Managers, food and kindred products	—	—		—	—		—	—		—	—	
Managers, transportation and mail superintendents	52	—		727	71		7	2		1 799	91	
Managers, food and kindred products	—	—		—	—		—	—		—	—	
Managers and administrators, n.e.c.	—	—		—	—		—	—		—	—	
Managers, food and kindred products	21 839	6 400		73 332	26 806		9 021	2 322		63 086	6 317	
Managers and administrators, n.e.c.	21 291	6 305		73 176	26 774		8 766	2 284		61 442	6 134	
Salaries	548	95		156	32		255	38		1 644	183	
Self-employed	—	—		—	—		—	—		—	—	
Management related occupations	3 732	1 837		24 455	12 987		1 834	740		38 208	9 192	
Accountants and auditors	2 377	1 198		7 343	3 789		881	344		18 121	5 726	
Underwriters	—	—		—	—		—	—		—	—	
Other financial officers	5	—		29	18		—	—		—	—	
Management analysts	135	43		1 362	568		94	26		2 041	500	
Personnel, training, and labor relations specialists	268	115		1 240	465		115	39		929	223	
Purchasing agents and buyers, farm products	598	289		1 360	6 566		429	204		8 316	1 701	
Buyers, wholesale and retail trade except farm products	—	—		—	—		—	—		—	—	
Purchasing agents and buyers, n.e.c.	—	—		—	—		—	—		—	—	
Business and promotion agents	125	57		1 024	334		—	—		—	—	
Construction inspectors	140	97		30	51		4	—		—	—	
Inspectors and compliance officers, except construction	14	—		204	10		7	—		—	—	
Management related occupations, n.e.c.	12	38		178	25		9	—		—	—	
Professional specialty occupations	94 208	22 824		68 795	19 267		6 248	992		92 731	8 276	
Engineers, architects, and surveyors	8 459	483		44 592	8 595		3 193	101		63 789	1 908	
Architects	24	—		205	35		—	—		429	28	
Engineers	8 428	476		44 382	8 560		3 190	101		62 592	1 842	
Aerospace engineers	7	—		140	34		26	—		138	5	
Metallurgical and materials engineers	4	—		14	—		5	—		254	5	
Mining engineers	—	—		28	9		—	—		95	—	
Chemical engineers	7	—		16	5		10	—		266	12	
Nuclear engineers	—	—		9	—		—	—		921	104	
Civil engineers	70	—		1 118	128		45	11		10 828	365	
Agricultural engineers	—	—		—	—		—	—		—	—	
Electrical and electronic engineers	7 436	406		39 794	7 855		2 429	68		33 136	720	
Industrial engineers	321	38		633	61		135	12		2 776	106	
Mechanical engineers	165	—		445	43		75	—		4 694	131	
Marine engineers and naval architects	—	—		—	—		—	—		—	—	
Engineers, n.e.c.	409	32		2 167	419		458	10		7 331	329	
Surveyors and mapping scientists	7	—		6	—		3	—		768	38	
Mathematical and computer scientists	393	91		7 877	2 970		707	108		6 563	1 504	
Computer systems analysts and scientists	264	57		5 157	1 799		411	60		3 451	673	
Operations and systems researchers and analysts	73	—		2 159	909		248	5		2 252	534	
Actuaries	—	—		22	13		—	—		11	—	
Statisticians	—	—		520	243		48	43		767	272	
Mathematical scientists, n.e.c.	53	34		19	6		—	—		82	25	
Gas and steam supply systems												
Total	170 568	56 031		1 372 626	231 230		82 804	27 542		1 372 626	231 230	
Electric light and power and electric-gas utilities												
Government workers	106 710	17 963		16 236	2 177		19 081	4 442		205 166	25 020	
Other workers	659 204	118 710		7 170	1 315		12 813	3 450		112 435	16 744	
Total	1 775 814	296 673		1 372 626	231 230		82 804	27 542		1 372 626	231 230	
Gas and steam supply systems	25 803	3 938		—	—		—	—		—	—	
Total	18 483	2 870		—	—		—	—		—	—	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Communications—Con.				Transportation, communications, and other public utilities—Con.				Utilities and sanitary services			
	Radio and television broadcasting		Telephone (wire and radio)		Telegraph and miscellaneous communication services		Total		Electric light and power and electric-gas utilities		Gas and steam supply systems	
	Total	Female	Total	Female	Total	Female	Total	Female	Government workers	Other workers	Total	Female
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.												
Managerial and professional specialty occupations—Con.												
Professional specialty occupations—Con.												
Natural scientists	586	97	431	183	49	6	7 630	1 089	487	69	3 547	461
Physicists and astronomers	8	—	45	6	6	—	1 081	45	107	5	954	40
Chemists, except biochemists	—	—	177	99	25	6	3 670	626	175	30	1 270	216
Atmospheric and space scientists	564	90	108	44	9	—	191	21	—	—	143	16
Geologists and geodesists	7	7	7	—	—	—	726	37	32	2	171	—
Physical scientists, n.e.c.	—	—	12	—	—	—	330	55	26	—	175	43
Agricultural and food scientists	7	—	19	6	—	—	101	18	5	—	43	11
Biological and life scientists	—	—	14	6	—	—	667	118	58	38	259	38
Forestry and conservation scientists	—	—	49	22	9	—	776	138	84	512	84	50
Medical scientists	—	—	—	—	—	—	88	31	—	—	20	13
Health diagnosing occupations	61	4	163	42	13	—	156	22	9	96	13	15
Physicians	8	—	150	29	7	—	114	13	9	68	13	15
Dentists	—	—	7	7	—	—	9	9	9	—	—	—
Veterinarians	—	—	—	—	—	—	20	—	—	15	—	—
Optometrists	42	—	6	6	—	—	—	—	—	—	—	—
Podiatrists	—	—	—	—	—	—	—	—	—	—	—	—
Health diagnosing practitioners, n.e.c.	11	4	—	—	6	—	13	—	—	13	—	—
Health assessment and treating occupations	155	60	374	368	16	5	445	338	102	100	245	182
Registered nurses	76	49	368	368	6	—	367	31	100	182	170	170
Pharmacists	—	—	—	—	—	—	24	7	—	—	5	—
Dietitians	7	—	—	—	—	—	16	7	2	—	12	—
Therapists	72	4	6	—	10	5	29	7	—	—	7	—
Physicians' assistants	—	—	—	—	—	—	—	—	—	23	—	—
Teachers, postsecondary	75	60	90	28	—	—	109	11	22	76	—	—
Teachers, except postsecondary	118	63	1 686	1 066	118	59	1 979	1 009	190	109	1 408	672
Teachers, prekindergarten and kindergarten	—	—	8	—	—	—	12	12	—	—	12	—
Teachers, elementary and secondary school	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, special education	—	—	8	8	—	—	8	8	8	—	—	—
Teachers, n.e.c.	118	63	1 670	1 058	112	59	1 959	989	182	101	1 396	660
Counselors, educational and vocational	32	18	114	70	11	5	86	29	13	7	66	22
Librarians, archivists, and curators	205	125	877	463	30	18	299	195	35	26	181	110
Librarians	164	117	128	99	30	18	269	188	26	26	172	103
Archivists and curators	41	8	749	364	—	—	30	7	9	9	7	—
Social scientists and urban planners	289	105	3 940	1 668	451	104	2 062	335	142	23	1 321	179
Economists	260	102	3 845	1 657	445	104	1 904	304	113	23	1 230	155
Psychologists	20	3	88	11	6	—	71	24	—	—	45	17
Sociologists	—	—	—	—	—	—	—	—	—	—	—	—
Social scientists, n.e.c.	9	—	7	—	—	—	27	—	12	15	—	—
Urban planners	—	—	—	—	—	—	60	7	17	31	7	—
Social, recreation, and religious workers	80	25	146	97	—	—	256	83	98	50	94	15
Social workers	11	7	90	74	—	—	229	80	98	50	77	15
Recreation workers	7	—	30	16	—	—	11	3	—	4	—	—
Clergy	30	7	26	7	—	—	10	—	—	—	—	—
Religious workers, n.e.c.	32	7	—	—	—	—	6	—	—	6	—	—
Lawyers and judges	302	71	952	216	166	50	1 899	216	130	13	1 098	117
Lawyers	302	71	952	216	166	50	1 899	216	130	13	1 098	117
Judges	—	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	85 453	21 622	7 552	3 501	1 514	536	7 458	1 537	501	134	5 183	932
Authors	1 247	695	130	67	38	17	36	20	6	—	45	15
Technical writers	511	185	1 096	695	149	81	379	105	17	—	265	65
Designers	1 340	499	1 649	764	249	84	2 628	177	135	31	2 033	98
Musicians and composers	886	143	17	8	17	—	44	7	—	—	9	2
Actors and directors	19 309	6 019	372	94	242	41	46	4	—	—	7	—
Painters, sculptors, craft-artists, and artist printmakers	934	349	515	229	28	19	291	87	45	5	172	61
Photographers	7 061	830	156	27	41	7	233	22	34	—	153	15
Dancers	26	13	—	—	5	—	—	—	—	—	—	—
Artists, performers, and related workers, n.e.c.	619	151	54	26	21	53	73	53	—	—	20	6
Editors and reporters	13 342	4 650	512	280	152	56	384	220	58	36	218	123
Public relations specialists	2 007	1 101	2 705	1 232	354	151	3 334	844	178	45	2 251	547
Announcers	38 118	6 991	314	67	94	14	10	—	—	—	—	—
Athletes	33	20	—	—	—	—	—	—	—	10	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Communications—Con.				Transportation, communications, and other public utilities—Con.				Utilities and sanitary services			
	Radio and television broadcasting		Telephone (wire and radio)		Telegraph and miscellaneous communication services		Total		Electric light and power and electric-gas utilities		Gas and steam supply systems	
	Total	Female	Total	Female	Total	Female	Total	Female	Government workers	Other workers	Total	Female
United States												
Employed persons 16 years and over—Con.												
Technical, sales, and administrative support occupations	72 278	38 793	612 594	454 506	37 427	20 664	362 309	180 538	27 153	192 132	61 454	29 326
Technicians and related support occupations	19 288	3 214	46 014	13 402	8 190	781	54 723	7 914	31 059	31 059	6 662	953
Health technologists and technicians	6	—	55	92	18	—	1 606	231	90	271	42	7
Clinical laboratory technologists and technicians	—	—	—	—	—	—	65	33	8	—	—	—
Dental hygienists	—	—	—	—	—	—	—	—	—	—	—	—
Health record technologists and technicians	—	—	—	—	—	—	20	10	10	4	—	—
Radiologic technicians	—	—	22	11	—	—	119	36	7	91	—	—
Licensed practical nurses	—	—	25	25	—	—	45	21	14	16	—	—
Health technologists and technicians, n.e.c.	6	—	18	16	—	—	1 357	131	51	19	35	—
Engineering and related technologists and technicians	4 082	340	15 236	6 005	3 169	311	33 507	3 886	3 351	20 256	3 203	421
Electrical and electronic technicians	3 405	215	6 777	705	2 470	114	9 342	561	769	6 910	731	44
Industrial engineering technicians	6	—	229	46	17	—	273	33	36	129	53	—
Mechanical engineering technicians	—	—	—	—	—	—	—	—	—	—	—	—
Engineering technicians, n.e.c.	520	83	2 252	1 282	79	12	9 351	1 471	1 035	4 831	587	104
Drafting occupations	110	23	5 850	3 896	536	157	12 138	1 769	1 736	7 100	1 595	266
Surveying and mapping technicians	34	19	117	76	67	26	2 137	34	282	1 145	224	7
Science technicians	70	—	445	119	535	26	3 870	590	227	1 606	229	20
Biological technicians	28	—	57	7	—	—	256	49	34	52	22	—
Chemical technicians	—	—	—	—	—	—	1 693	328	116	14	697	134
Science technicians, n.e.c.	42	—	379	112	530	26	1 921	213	77	857	102	26
Technicians, except health, engineering, and science	15 130	2 874	30 213	7 186	4 468	444	15 740	3 205	886	8 926	3 188	505
Airplane pilots and navigators	66	—	140	—	25	—	333	7	30	155	115	7
Air traffic controllers	—	—	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators	12 867	1 946	353	93	555	113	987	188	104	507	178	21
Computer programmers	665	275	8 083	3 578	518	149	6 602	1 971	370	4 269	1 078	372
Tool programmers, numerical control	25	8	140	51	6	—	105	46	8	58	27	—
Legal assistants	45	25	322	184	56	22	529	263	51	26	108	45
Technicians, n.e.c.	1 462	620	21 175	160	3 308	160	7 184	730	323	3 657	1 682	60
Sales occupations	19 047	7 418	31 940	17 749	4 281	1 201	21 647	8 858	1 089	10 608	4 844	1 797
Salespersons and proprietors, sales occupations	241	41	2 202	703	345	42	1 878	72	90	806	41	12
Self-employed	229	34	2 190	691	333	42	1 803	144	90	798	327	12
Sales representatives, finance and business services	12	7	12	—	—	—	75	8	—	8	—	—
Insurance sales occupations	18 219	6 982	25 139	13 094	2 692	663	11 263	1 857	442	5 172	2 801	419
Real estate sales occupations	—	—	147	50	8	—	515	33	48	314	101	—
Securities and financial services sales occupations	—	—	—	—	96	52	71	24	—	45	6	—
Advertising and related sales occupations	17 539	6 708	1 772	652	2 588	611	10 697	1 800	394	4 793	2 694	419
Sales occupations, other business services	62	12	23 220	12 392	58	2	471	2	—	282	80	2
Sales representatives, commodities, except retail	62	12	99	13	58	2	471	2	—	282	80	2
Sales engineers	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, mining, manufacturing, and wholesale	501	373	4 462	3 916	1 186	494	7 905	6 885	557	4 297	1 491	1 355
Sales workers, retail and personal services	—	—	26	21	769	182	202	16	17	65	19	2
Sales workers, commodities	—	—	32	—	13	—	93	40	8	48	15	13
Sales counter clerks	6	—	3 572	3 366	218	199	7 429	6 767	514	4 111	1 435	1 340
Cashiers	320	245	727	448	186	100	118	39	18	28	12	—
Street and door-to-door sales workers	19	—	105	81	—	—	63	23	—	45	9	—
News vendors	—	—	—	—	—	—	—	—	—	—	—	—
Sales related occupations	24	10	38	23	—	—	110	42	—	51	33	45
Demonstrators, promoters and models, sales	13	6	22	15	—	—	75	29	—	31	20	9
Auctioneers	—	—	8	8	—	—	15	—	—	—	7	—
Sales support occupations, n.e.c.	11	4	—	—	—	—	20	13	—	20	—	—
Administrative support occupations, including clerical	33 943	28 161	534 640	423 355	24 956	18 482	285 939	163 766	21 520	150 465	49 848	26 576
Supervisors, administrative support occupations	1 464	938	87 722	37 709	3 835	1 327	18 937	5 530	972	10 449	3 262	804
Supervisors, general office	754	491	20 773	14 000	737	374	10 434	3 834	486	169	1 692	534
Supervisors, computer equipment operators	351	228	1 871	971	108	70	4 295	1 186	253	2 589	615	184
Supervisors, material records processing	272	92	3 110	1 984	238	132	4 722	34	28	2 242	884	185
Chief communications operators	246	118	4 260	1 817	2 131	513	2 503	314	16	1 325	398	78
Supervisors, distribution, scheduling, and adjusting clerks	845	584	12 429	8 357	708	352	7 451	3 879	170	464	2 901	1 78
Computer equipment operators	813	538	11 858	7 950	683	346	6 846	3 507	640	3 662	1 116	438
Peripheral equipment operators	52	46	571	406	25	6	605	372	50	406	80	46

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States														
Transportation, communications, and other public utilities—Con														
Utilities and sanitary services														
Electric light and power and electric-gas utilities														
Other workers														
Government workers														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female														
Total														
Female</														

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.	
Administrative support occupations, including clerical—Con.	
Secretaries, stenographers, and typists	
Stenographers	
Typists	
Information clerks	
Interviewers	
Hotel clerks	
Transportation ticket and reservation agents	
Receptionists	
Information clerks, n.e.c.	
Records processing occupations, except financial	
Classified-ad clerks	
Correspondence clerks	
Order clerks	
Personnel clerks, except payroll and timekeeping	
Library clerks	
File clerks	
Records clerks	
Financial records processing occupations	
Bookkeepers, accounting, and auditing clerks	
Payroll and timekeeping clerks	
Billing clerks	
Cost and rate clerks	
Billing, posting, and calculating machine operators	
Duplicating, mail, and other office machine operators	
Duplicating machine operators	
Mail preparing and paper handling machine operators	
Office machine operators, n.e.c.	
Communications equipment operators	
Telephone operators	
Telegraphers	
Communications equipment operators, n.e.c.	
Mail and message distributing occupations	
Postal clerks, except mail carriers	
Mail carriers, postal service	
Mail clerks, except postal service	
Messengers	
Material recording, scheduling, and distributing clerks	
Dispatchers	
Production coordinators	
Traffic, shipping, and receiving clerks	
Stock and inventory clerks	
Meter readers	
Weights, measurers, and checkers	
Samplers	
Expeditors	
Material recording, scheduling, and distributing clerks, n.e.c.	
Adjusters and investigators	
Insurance adjusters, examiners, and investigators	
Eligibility clerks, except insurance	
Eligibility clerks, welfare	
Bill and account collectors	
Miscellaneous administrative support occupations	
General office clerks	
Bank tellers	
Proofreaders	
Data-entry keyers	
Statistical clerks	
Teachers' aides	
Administrative support occupations, n.e.c.	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States	Communications—Con.				Transportation, communications, and other public utilities—Con.				Utilities and sanitary services			
	Radio and television broadcasting		Telephone (wire and radio)		Telegraph and miscellaneous communication services		Total		Electric light and power and electric-gas utilities		Gas and steam supply systems	
	Total	Female	Total	Female	Total	Female	Total	Female	Government workers	Other workers	Total	Female
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations.....	3 076	1 229	13 080	5 195	837	234	47 512	6 125	4 274	566	20 489	3 505
Private household occupations.....	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations.....	517	53	1 982	513	181	28	9 376	1 023	1 236	125	5 290	495
Supervisors, protective service occupations.....	21	—	148	31	19	6	464	10	24	—	339	10
Supervisors, firefighting and fire prevention occupations.....	—	—	7	—	—	—	45	—	—	—	34	—
Supervisors, police and detectives.....	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, guards.....	21	—	141	31	19	6	419	10	24	—	305	10
Firefighting and fire prevention occupations.....	8	—	9	—	13	—	294	7	80	—	131	—
Fire inspection and fire prevention occupations.....	5	—	9	—	7	—	141	7	8	—	96	—
Freighting occupations.....	3	—	—	—	6	—	153	—	72	—	35	—
Police and detectives.....	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service.....	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers.....	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers.....	—	—	—	—	—	—	—	—	—	—	—	—
Guards.....	488	53	1 825	475	149	22	8 618	1 006	1 132	125	4 820	685
Crossing guards.....	—	—	30	13	5	—	18	—	6	—	6	—
Guards and police, except public service.....	481	53	1 753	462	126	10	8 544	992	1 124	117	4 786	685
Protective service occupations, n.e.c.....	7	—	42	—	18	7	56	2	2	—	28	—
Service occupations, except protective and household.....	2 559	1 176	11 098	4 682	656	206	38 136	5 102	3 038	441	15 399	2 810
Food preparation and service occupations.....	192	115	1 288	918	48	13	792	462	43	37	470	296
Supervisors, food preparation and service occupations.....	18	18	39	27	7	—	41	14	6	6	9	8
Bartenders.....	—	—	—	—	—	—	—	—	—	—	—	—
Waiters and waitresses.....	46	29	151	143	23	3	121	77	17	17	49	29
Cooks, except short order.....	73	36	220	173	—	—	292	169	14	8	170	104
Short-order cooks.....	—	—	—	—	—	—	2	2	—	—	2	2
Food counter, fountain and related occupations.....	8	—	352	334	—	—	47	23	—	—	34	14
Kitchen workers, food preparation.....	15	9	243	56	15	—	51	21	—	—	44	14
Waiters and waitresses, assistants.....	12	12	98	71	—	—	31	19	—	—	25	19
Miscellaneous food preparation occupations.....	20	11	185	114	3	3	197	137	6	6	137	106
Health service occupations.....	12	12	97	83	4	4	314	138	33	19	149	70
Dental assistants.....	—	—	5	5	—	—	5	5	—	—	5	5
Health aides, except nursing.....	—	—	29	22	—	—	151	52	14	—	59	28
Nursing aides, orderlies, and attendants.....	12	12	63	56	4	4	158	81	19	19	85	37
Cleaning and building service occupations, except household.....	1 761	693	9 110	3 327	587	182	36 344	4 165	2 903	346	14 423	2 274
Supervisors, cleaning and building service workers.....	75	—	367	82	68	6	1 008	20	110	6	349	6
Maid and housemen.....	181	125	722	456	50	44	1 931	515	206	81	886	216
Janitors and cleaners.....	1 505	568	7 935	2 778	469	132	32 844	3 531	2 579	259	13 140	2 042
Elevator operators.....	—	—	67	61	—	—	68	37	8	—	25	10
Pest control occupations.....	—	—	17	—	—	—	493	62	—	—	23	—
Personal service occupations.....	594	356	603	354	17	7	686	337	59	39	357	170
Supervisors, personal service occupations.....	27	21	35	24	5	—	36	11	13	5	7	7
Barbers.....	6	6	6	6	—	—	30	12	—	—	7	—
Hairstylists and cosmetologists.....	189	109	130	76	—	—	58	22	8	8	32	14
Attendants, amusement and recreation facilities.....	109	7	61	7	7	7	123	41	8	8	97	27
Guides.....	—	—	12	12	—	—	18	4	—	—	4	—
Ushers.....	38	—	—	—	—	—	21	—	—	—	12	—
Public transportation attendants.....	—	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops.....	—	—	—	—	—	—	—	—	—	—	—	—
Waiters, waitresses, and bartenders.....	—	—	—	—	—	—	—	—	—	—	—	—
Child care workers, except private household.....	21	16	117	67	—	—	118	64	15	13	48	15
Personal service occupations, n.e.c.....	198	154	218	157	5	—	280	183	15	5	150	103
Farming, forestry, and fishing occupations.....	132	23	189	13	6	—	3 395	169	352	1	1 158	69
Farm operators and managers.....	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial.....	—	—	7	7	—	—	54	17	—	—	12	—
Related agricultural occupations.....	110	12	145	7	6	—	3 026	149	312	1	980	57
Supervisors, related agricultural occupations.....	—	—	8	—	—	—	72	—	—	—	34	—
Groundskeepers and gardeners, except farm.....	110	12	135	4	6	—	2 882	137	312	1	933	57
Animal caretakers, except farm.....	—	—	2	2	—	—	37	5	—	—	7	—
Graders and sorters, agricultural products.....	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products.....	—	—	—	—	—	—	35	7	—	—	6	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Transportation, communications, and other public utilities—Con												
Communications—Con				Utilities and sanitary services				Gas and steam supply systems				
Radio and television broadcasting		Telephone (wire and radio)		Telegraph and miscellaneous communication services		Total					Electric, light and power and electric-gas utilities	
		Total	Female	Total	Female	Total	Female				Total	Female
Employed persons 16 years and over—Con.												
Farming, forestry, and fishing occupations—Con.												
Supervisors, forestry and logging workers												
Forestry workers, except logging												
Timber cutting and logging occupations												
Fishers, hunters, and trappers												
Captains and other officers, fishing vessels												
Hunters and trappers												
Precision production, craft, and repair occupations												
Mechanics and repairers												
Supervisors, mechanics and repairers												
Mechanics and repairers, except supervisors												
Vehicle and mobile equipment mechanics and repairers												
Automobile mechanics												
Bus, truck, and stationary engine mechanics												
Aircraft engine mechanics												
Small engine repairers												
Automobile body and related repairers												
Aircraft mechanics, except engine												
Heavy equipment mechanics												
Farm equipment mechanics												
Industrial machinery repairers												
Machinery maintenance occupations												
Electrical and electronic equipment repairers												
Electronic repairers, communications and industrial equipment												
Data processing equipment repairers												
Household appliance and power tool repairers												
Telephone line installers and repairers												
Telephone installers and repairers												
Miscellaneous electrical and electronic equipment repairers												
Heating, air conditioning, and refrigeration mechanics												
Miscellaneous mechanics and repairers												
Camera, watch, and musical instrument repairers												
Locksmiths and safe repairers												
Office machine repairers												
Mechanical controls and valve repairers												
Elevator installers and repairers												
Millwrights												
Specified mechanics and repairers, n.e.c.												
Not specified mechanics and repairers												
Construction trades												
Supervisors, construction occupations												
Supervisors, brickmasons, stonemasons, and tile setters												
Supervisors, carpenters and related workers												
Supervisors, electricians and power transmission installers												
Supervisors, painters, paperhangers, and plasterers												
Supervisors, plumbers, pipefitters, and steamfitters												
Supervisors, n.e.c.												
Construction trades, except supervisors												
Brickmasons and stonemasons												
Tile setters, hard and soft												
Carpet installers												
Carpenters												
Drywall installers												
Electricians												
Electrical power installers and repairers												
Painters, construction and maintenance												
Paperhangers												

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Transportation, communications, and other public utilities—Con.									
Communications—Con.				Utilities and sanitary services					
Radio and television broadcasting		Telephone (wire and radio)		Telegraph and miscellaneous communication services		Total		Electric light and power and electric-gas utilities	
Total	Female	Total	Female	Total	Female	Total	Female	Government workers	Other workers
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
320	291	71	11	31	—	25	—	1	24
—	—	16	—	—	311	25 997	—	2 438	9 425
—	—	33	—	21	6	342	—	72	144
—	—	—	—	—	41	735	—	117	14
—	—	—	—	—	—	47	—	8	526
—	—	—	—	—	—	41	—	16	15
—	—	—	—	—	—	199	—	35	35
—	—	—	—	—	—	1 071	—	70	84
—	—	—	—	—	—	283	—	347	633
34	—	80	7	144	6	3 864	—	20	133
5	—	56	21	15	43	543	—	268	432
5	—	16	—	7	14	171	—	21	202
—	—	—	—	—	—	55	—	5	86
—	—	19	—	—	—	87	—	13	15
—	—	15	—	—	—	128	—	6	36
—	—	6	—	8	5	102	—	—	18
1 470	176	9 986	2 920	1 541	609	178 990	—	3	26
692	130	6 868	2 196	573	37	85 641	5 870	14 529	78 599
135	7	497	86	139	93	9 365	2 752	6 155	208
—	—	115	—	5	33	145	126	1 759	44 552
14	6	—	—	18	—	29	—	18	5 683
90	1	213	13	66	15	4 756	—	7	76
7	—	55	2	6	—	3 565	42	2 627	29
—	—	16	6	7	—	29	80	742	2
—	—	—	—	—	—	55	—	38	2 426
—	—	38	32	17	—	33	—	10	17
—	—	8	—	—	—	12	—	17	—
16	—	14	—	—	—	32	—	12	—
—	—	—	—	—	—	665	—	—	—
—	—	—	—	—	—	22	4	186	442
7	—	20	5	—	—	63	2	8	4
7	—	15	—	—	—	11	—	23	22
—	—	—	—	—	—	25	—	14	—
—	—	—	—	—	—	6	—	—	6
—	—	5	—	—	—	21	—	9	—
3	3	26	20	—	—	357	31	2	12
—	—	—	—	—	—	274	4	24	4
—	—	—	—	—	—	6	—	4	4
—	—	—	—	—	—	5	—	—	—
—	—	—	—	—	—	40	—	—	—
—	—	11	8	—	—	2	—	20	—
—	—	—	—	—	—	30	—	—	—
56	9	150	51	126	76	1 277	72	87	771
—	—	6	—	—	—	65	—	14	15
—	—	5	—	—	—	7	—	—	—
15	8	5	5	—	—	56	—	12	37
—	—	20	6	—	—	27	—	8	—
1	1	83	40	113	76	100	56	—	14
40	—	31	—	13	—	1 008	9	61	56
9	—	23	10	6	—	134	19	5	60
2	—	23	10	—	—	106	14	5	24
7	—	—	—	6	—	28	5	—	45
—	—	—	—	—	—	—	—	—	15
42	—	1 385	379	599	396	3 162	—	361	—
42	—	1 385	379	599	396	3 153	140	35	2 416
—	—	—	—	—	—	9	6	87	2 414
—	—	—	—	—	—	—	—	2	—

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Construction trades—Con.

Construction trades, except supervisors—Con.

Plasterers
 Plumbers, pipefitters, and steamfitters
 Concrete and terrazzo finishers
 Glaziers
 Insulation workers
 Paving, surfacing, and tamping equipment operators
 Roofers
 Sheetmetal duct installers
 Structural metal workers
 Drivers, earth
 Construction trades, n.e.c.
 Supervisors
 Supervision extractive occupations
 Drillers, oil well
 Explosives workers
 Mining machine operators
 Mining occupations, n.e.c.

Precision production occupations
 Supervisors, production occupations
 Precision metalworking occupations
 Tool and die makers
 Precision assemblers, metal
 Machinists
 Boilermakers
 Precision grinders, filers, and tool sharpeners
 Patternmakers and model makers, metal
 Lay-out workers
 Engravers, metal
 Sheet metal workers
 Miscellaneous precision metal workers
 Precision woodworking occupations
 Patternmakers and model makers, wood
 Cabinet makers and bench carpenters
 Furniture and wood finishers
 Miscellaneous precision woodworkers
 Precision textile, apparel, and furnishings machine workers
 Dressmakers
 Tailors
 Upholsterers
 Shoe repairers
 Apparel and fabric patternmakers
 Miscellaneous precision apparel and fabric workers
 Precision workers, assorted materials
 Hand molders and shapers, except jewelers
 Patternmakers, lay-out workers, and cutters
 Optical goods workers
 Dental laboratory and medical appliance technicians
 Bookbinders
 Electrical and electronic equipment assemblers
 Miscellaneous precision workers, n.e.c.
 Precision food production occupations
 Butchers and meat cutters
 Bakers
 Food batchmakers
 Precision inspectors, testers, and related workers
 Inspectors, testers, and graders
 Adjusters and calibrators

Employed persons 16 years and over—Con.

OCCUPATION BY INDUSTRY

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States															
Communications—Con.						Transportation, communications, and other public utilities—Con.									
Radio and television broadcasting			Telephone (wire and radio)			Telegraph and miscellaneous communication services		Total		Electric light and power and electric-gas utilities				Gas and steam supply systems	
Total		Female	Total		Female	Total		Female	Total		Female	Total		Female	
Employed persons 16 years and over—Con.															
Operators, fabricators, and laborers—Con.															
Machine operators, assemblers, and inspectors—Con.															
Machine operators and tenders, except precision—Con.															
Machine operators, assorted materials—Con.															
Folding machine operators															
Furnace, kiln, and oven operators, except food															
Crushing and grinding machine operators															
Slicing and cutting machine operators															
Motion picture projectionists															
Photographic process machine operators															
Miscellaneous machine operators, n.e.c.															
Machine operators, not specified															
Fabricators, assemblers, and hand working occupations															
Welders and cutters															
Solders and brazers															
Assemblers															
Hand cutting and trimming occupations															
Hand molding, casting, and forming occupations															
Hand painting, coating and decorating occupations															
Hand engraving and printing occupations															
Hand grinding and polishing occupations															
Miscellaneous hand working occupations															
Production inspectors, testers, samplers, and weighers															
Production inspectors, checkers, and examiners															
Production testers															
Production samplers and weighers															
Graders and sorters, except agricultural															
Transportation and material moving occupations															
Motor vehicle operators															
Supervisors, motor vehicle operators															
Truck drivers, heavy															
Truck drivers, light															
Driver-sales workers															
Bus drivers															
Taxicab drivers and chauffeurs															
Parking lot attendants															
Motor transportation occupations, n.e.c.															
Rail transportation occupations															
Railroad conductors and yardmasters															
Locomotive operating occupations															
Railroad brake, signal, and switch operators															
Rail vehicle operators, n.e.c.															
Water transportation occupations															
Ship captains and mates, except fishing boats															
Sailors and deckhands															
Marine engineers															
Bridge, lock, and lighthouse tenders															
Material moving equipment operators															
Supervisors, material moving equipment operators															
Operating engineers															
Longshore equipment operators															
Hoist and winch operators															
Crane and tower operators															
Excavating and loading machine operators															
Grader, dozer, and scraper operators															
Industrial truck and tractor equipment operators															
Miscellaneous material moving equipment operators															

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Transportation, communications, and other public utilities—Con.											
Communications—Con						Utilities and sanitary services					
Radio and television broadcasting		Telephone (wire and radio)		Telegraph and miscellaneous communication services		Total		Electric light and power and electric-gas utilities		Gas and steam supply systems	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.											
1 503	190	6 787	2 228	922	103	130 784	4 382	5 793	263	24 104	1 284
—	—	104	30	5	5	492	14	44	—	76	14
5	—	33	—	—	—	1 205	72	102	19	730	45
13	—	23	15	2	—	3 224	155	548	80	1 955	80
—	—	15	7	2	—	3 021	145	533	47	1 849	72
—	—	8	8	—	—	203	10	15	—	106	8
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
28	—	904	83	289	—	12 219	203	1 319	22	5 965	137
—	—	447	167	16	6	3 165	129	347	13	2 010	105
832	41	744	224	96	21	59 370	1 437	234	3	1 539	92
5	—	18	—	—	—	56 241	1 287	112	—	204	6
8	—	—	—	7	—	49	—	—	—	17	—
—	—	—	—	—	—	—	—	—	—	—	—
20	—	260	115	32	6	885	75	15	—	639	50
—	—	—	—	—	—	—	—	—	—	—	—
5	5	10	—	—	—	309	18	4	—	141	7
—	—	—	—	—	—	—	—	—	—	—	—
794	36	456	109	57	15	1 886	57	103	3	538	29
—	—	289	73	14	8	1 450	25	62	—	372	17
14	14	251	62	—	—	927	49	28	—	239	15
2	—	291	135	22	2	324	63	5	—	65	4
609	135	3 701	1 439	478	61	48 408	2 235	3 104	159	11 155	775
Garage and service station related occupations											
Vehicle washers and equipment cleaners											
Hand packers and packagers											
Laborers, except construction											
Total											
6 666											
213											
6											
110											
317											
26											
22											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											
—											

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stevedores
 Stock handlers and bidders
 Machine feeders and off-borders
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Transportation, communications, and other public utilities—Con.				Wholesale trade, total				Wholesale trade, durable goods			
	Utilities and sanitary services—Con.											
	Sanitary services		Not specified utilities		Total		Female		Total		Female	
Water supply and irrigation	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	165 934	28 596	237 983	20 434	4 217 232	1 133 761	2 198 192	560 588	287 535	64 757	79 011	25 905
Managerial and professional specialty occupations	23 888	2 808	20 800	2 263	1 133	744 045	398 590	67 847	48 745	6 118	13 923	3 691
Executive, administrative, and managerial occupations	15 042	2 209	15 354	1 705	826	672 415	357 398	59 836	46 606	5 756	12 565	2 967
Legislators, chief executives, and general administrators	—	—	—	—	—	—	—	—	—	—	—	—
Public administrators and officials, public administration	—	—	—	—	—	—	—	—	—	—	—	—
Administrators and officials, public administration	—	—	—	—	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—	—	—	—	—
Administrators, protective services	—	—	—	—	—	—	—	—	—	—	—	—
Financial managers	271	74	340	68	32	7 846	16 425	4 739	1 559	7	703	240
Personnel and labor relations managers	177	39	234	43	28 099	2 530	5 564	1 477	664	128	151	38
Purchasing managers	35	—	51	—	5 125	756	3 287	508	309	18	111	25
Managers, marketing, advertising, and public relations	175	7	345	6	125 249	8 709	69 814	4 333	9 382	366	2 652	289
Administrators, education and related fields	42	—	38	—	472	90	269	52	48	—	—	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—
Managers, properties and real estate	—	—	—	—	—	—	—	—	—	—	—	—
Postmasters and mail superintendents	8	—	34	—	560	43	250	26	53	—	—	—
Funeral directors	10	—	—	—	—	—	—	—	—	—	—	—
Managers and administrators, n.e.c.	10 123	1 266	11 119	1 024	34	60 408	202 990	31 344	27 183	3 190	7 401	1 733
Salaries	9 817	1 231	10 112	912	328	552 976	190 456	29 471	25 476	2 992	6 983	1 652
Self-employed	306	35	1 007	112	20	352 862	12 534	1 873	1 707	198	438	81
Management related occupations	4 201	823	3 193	564	1 263	34 366	58 765	17 351	7 401	1 625	1 547	642
Accountants and auditors	1 212	589	644	238	39 302	15 728	19 669	7 841	2 349	814	578	314
Underwriters	—	—	—	—	15	5	5	5	2	2	—	—
Other financial officers	100	48	82	—	2 966	798	1 523	397	173	29	38	66
Management analysts	65	13	43	—	3 539	836	1 816	399	163	42	59	24
Personnel, training, and labor relations specialists	668	102	770	85	10 057	2 771	5 386	1 482	632	133	110	29
Purchasing agents and buyers, farm products	—	—	—	—	15 481	1 271	15 481	1 271	—	—	—	—
Buyers, wholesale and retail trade except farm products	—	—	—	—	51 489	12 459	29 612	7 025	3 994	585	726	254
Purchasing agents and buyers, n.e.c.	328	45	163	62	151	—	—	—	—	—	—	—
Business and promotion agents	—	—	—	—	470	174	204	62	22	6	9	9
Construction inspectors	379	3	206	—	69	9	39	—	—	—	—	—
Inspectors and compliance officers, except construction	1 397	10	1 253	173	41	625	186	47	31	7	27	3
Management related occupations, n.e.c.	46	25	19	6	12	606	325	93	35	7	27	10
Professional specialty occupations	8 846	599	5 446	558	2 256	17 758	41 192	8 011	2 139	362	1 358	724
Engineers, architects, and surveyors	6 421	165	3 353	115	1 241	23 703	17 485	888	720	18	83	21
Architects	—	—	39	6	6	313	195	38	7	—	16	9
Engineers	6 263	144	3 278	109	1 225	23 373	17 278	850	713	18	67	12
Aerospace engineers	9	—	—	—	—	149	123	7	—	—	—	—
Metallogical and materials engineers	—	—	—	—	—	290	224	1	6	—	—	—
Mining engineers	—	—	—	—	—	53	35	—	—	—	—	—
Petroleum engineers	49	—	9	—	659	17	23	—	—	—	—	—
Chemical engineers	29	—	93	—	20	67	210	19	26	—	6	2
Nuclear engineers	4 560	106	2 090	72	78	56	56	5	—	—	—	—
Civil engineers	12	—	7	—	901	27	466	22	6	—	—	—
Agricultural engineers	—	—	—	—	—	67	26	—	—	—	—	—
Electrical and electronic engineers	421	11	136	5	4 570	206	4 132	198	23	—	11	—
Industrial engineers	77	—	84	—	2 899	372	1 935	209	257	8	15	6
Mechanical engineers	203	14	192	—	3 032	72	2 269	62	169	5	—	—
Marine engineers and naval architects	—	—	—	—	—	—	—	—	—	—	—	—
Engineers, n.e.c.	889	3	650	32	9 581	415	7 747	320	220	5	35	6
Surveyors and mapping scientists	138	21	36	—	17	—	12	—	—	—	—	—
Mathematical and computer scientists	231	62	113	27	11 574	2 572	8 512	1 860	367	69	72	11
Computer systems analysts and scientists	150	18	34	7	8 953	1 917	7 134	1 520	172	37	49	3
Operations and systems researchers and analysts	48	31	49	14	2 031	408	1 129	255	135	20	18	8
Mathematical scientists	—	—	—	—	—	—	—	—	—	—	—	—
Statisticians	33	13	30	6	537	221	223	79	60	—	5	—
Mathematical scientists, n.e.c.	—	—	—	—	42	15	20	—	—	—	—	—
Lumber and construction materials	—	—	—	—	—	—	—	—	—	—	—	—
Furniture and home furnishings	—	—	—	—	—	—	—	—	—	—	—	—
Motor vehicles and equipment	—	—	—	—	—	—	—	—	—	—	—	—
Total	154 983	30 042	26 228	3 685	357 398	114 764	357 398	59 836	46 606	5 756	12 565	2 967

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Transportation, communications, and other public utilities—Con.				Utilities and sanitary services—Con.				Wholesale trade, total				Wholesale trade, durable goods					
	Water supply and irrigation		Sanitary services		Not specified utilities		Total		Female		Total		Female		Total		Female	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.	1 508	185	1 562	326	155	26	4 726	931	63	147	1 004	18	234	41	77	20	30	41
Managerial and professional specialty occupations—Con	7	—	—	—	5	—	181	5	14	5	162	—	—	—	—	—	—	—
Professional specialty occupations—Con	899	128	1 126	244	91	2	2 097	398	21	88	377	14	234	41	77	20	30	41
Natural scientists	—	—	—	—	9	—	71	17	6	6	55	—	—	—	—	—	—	—
Physicists and astronomers	29	29	27	—	20	—	731	149	19	83	83	—	—	—	—	—	—	—
Chemists, except biochemists	317	—	69	6	6	—	25	11	—	—	6	—	—	—	—	—	—	—
Atmospheric and space scientists	48	—	—	—	—	—	994	240	4	4	56	4	4	4	4	4	4	4
Geologists and geodesists	9	—	44	7	—	—	44	7	—	—	32	—	—	—	—	—	—	—
Physical scientists, n.e.c.	143	28	177	45	13	7	271	90	20	20	222	—	—	—	—	—	—	—
Agricultural and food scientists	51	—	68	6	11	11	271	133	8	—	11	—	—	—	—	—	—	—
Biological and life scientists	—	—	34	18	—	—	85	8	—	—	—	—	—	—	—	—	—	—
Forestry and conservation scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Medical scientists	6	—	22	—	8	—	236	9	9	9	91	9	9	9	9	9	9	9
Health diagnosing occupations	6	—	17	—	8	—	99	9	9	9	25	—	—	—	—	—	—	—
Physicians	6	—	—	—	—	—	57	—	—	—	26	—	—	—	—	—	—	—
Dentists	—	—	—	—	—	—	42	—	—	—	13	—	—	—	—	—	—	—
Veterinarians	—	—	5	—	—	—	27	—	—	—	27	—	—	—	—	—	—	—
Optometrists	—	—	—	—	—	—	11	—	—	—	—	—	—	—	—	—	—	—
Otolaryngologists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Podiatrists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Health diagnosing practitioners, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Health assessment and treating occupations	19	6	32	18	12	5	1 301	737	42	372	540	34	42	8	8	8	8	8
Registered nurses	13	6	25	11	12	5	532	462	34	280	321	34	42	8	8	8	8	8
Pharmacists	—	—	—	—	—	—	405	90	—	13	61	—	—	—	—	—	—	—
Dietitians	—	—	7	—	—	—	175	99	—	13	24	—	—	—	—	—	—	—
Therapists	—	—	—	—	—	—	168	65	—	51	119	—	—	—	—	—	—	—
Physicians' assistants	6	—	—	—	—	—	21	21	—	15	21	—	—	—	—	—	—	—
Teachers, postsecondary	8	—	—	—	3	—	203	39	8	6	93	—	8	—	—	—	—	—
Teachers, except postsecondary	86	43	20	—	64	42	1 895	676	130	398	1 265	6	130	25	13	5	5	5
Teachers, prekindergarten and kindergarten	—	—	—	—	—	—	8	8	—	—	—	—	—	—	—	—	—	—
Teachers, elementary and secondary school	—	—	—	—	—	—	23	8	—	2	17	—	—	—	—	—	—	—
Teachers, n.e.c.	86	43	20	—	64	42	1 864	660	130	396	1 248	6	130	25	13	5	5	5
Counselors, educational and vocational	9	7	16	11	7	7	420	261	11	152	236	6	11	14	14	12	12	12
Librarians, archivists, and curators	9	7	16	11	7	7	344	255	6	191	191	6	11	14	14	12	12	12
Archivists and curators	—	—	—	—	—	—	76	6	—	45	—	—	—	—	—	—	—	—
Social scientists and urban planners	52	7	14	—	99	27	6 625	1 826	—	1 000	3 446	41	234	77	20	30	41	41
Economists	45	—	9	—	92	27	6 521	1 782	234	981	3 389	41	234	77	20	30	41	41
Psychologists	7	—	—	—	—	—	28	5	—	5	21	—	—	—	—	—	—	—
Sociologists	—	—	—	—	—	—	20	11	—	16	16	—	—	—	—	—	—	—
Social scientists, n.e.c.	—	—	—	—	—	—	40	23	—	7	15	—	—	—	—	—	—	—
Urban planners	—	—	5	—	7	—	16	5	—	—	5	—	—	—	—	—	—	—
Social, recreation, and religious workers	31	16	8	2	12	—	335	96	13	72	138	—	13	—	—	6	—	—
Recreation workers	21	13	8	2	12	—	208	62	7	50	93	—	7	—	—	6	—	—
Clergy	7	—	—	—	—	—	76	22	—	17	34	—	—	—	—	—	—	—
Religious workers, n.e.c.	3	3	—	—	—	—	39	7	—	6	6	—	6	—	—	—	—	—
Lawyers and judges	99	11	83	6	58	12	1 455	158	44	94	521	7	44	13	6	23	7	7
Judges	99	11	83	6	58	12	1 455	158	44	94	521	7	44	13	6	23	7	7
Writers, artists, entertainers, and athletes	376	89	216	53	280	96	19 040	9 129	498	154	7 780	631	327	1 066	631	327	128	128
Authors	—	—	—	—	—	—	85	31	—	—	52	—	—	—	—	—	—	—
Technical writers	11	5	15	—	—	—	759	223	35	14	402	18	5	5	5	—	—	—
Designers	147	5	60	11	100	19	10 208	5 483	95	18	3 896	575	169	964	575	169	79	79
Musicians and composers	—	—	—	—	—	—	91	23	—	40	—	—	—	—	—	—	—	—
Actors and directors	9	—	—	—	19	7	141	33	—	23	73	—	—	—	—	—	—	—
Painters, sculptors, craft-artists, and artist printmakers	27	—	9	—	13	—	1 977	1 075	60	351	694	32	43	43	21	43	21	21
Photographers	7	—	14	—	—	—	290	53	14	29	199	—	14	—	—	—	—	—
Dancers	—	—	—	—	—	—	16	16	—	—	16	—	—	—	—	—	—	—
Artists, performers, and related workers, n.e.c.	18	—	—	—	—	—	301	188	14	80	143	—	14	9	—	—	—	—
Editors and reporters	9	—	11	6	16	—	313	815	60	266	523	42	20	20	13	13	13	13
Public relations specialists	148	52	107	27	132	62	3 742	1 180	220	482	1 530	43	220	25	12	115	28	28
Announcers	—	—	—	—	—	—	90	23	—	—	27	—	—	—	—	—	—	—
Athletes	—	—	—	—	—	—	—	—	—	—	6	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Transportation, communications, and other public utilities—Con.				Utilities and sanitary services—Con.				Wholesale trade, total				Wholesale trade, durable goods			
	Water supply and irrigation		Sanitary services		Not specified utilities		Total		Total		Total		Total		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations.....	44 265	23 303	24 108	13 361	13 187	7 648	1 991 065	815 356	1 097 620	429 234	153 979	49 172	40 941	18 288	60 293	23 695
Technicians and related support occupations.....	5 473	833	5 207	910	1 768	357	46 461	9 886	31 377	5 437	1 635	553	326	99	930	137
Health technologists and technicians.....	167	45	1 018	70	18	4	961	140	475	137	—	—	—	—	—	—
Clinical laboratory technologists and technicians.....	12	6	21	12	4	4	291	137	93	11	—	—	—	—	—	—
Dental hygienists.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Health record technologists and technicians.....	6	6	7	—	—	—	12	5	5	—	—	—	—	—	—	—
Radiologic technicians.....	7	7	8	—	—	—	35	13	12	5	—	—	—	—	—	—
Licensed practical nurses.....	135	26	982	58	14	—	142	76	49	13	—	—	—	—	—	—
Health technologists and technicians, n.e.c.....	—	—	—	—	—	—	481	161	316	111	—	—	—	—	6	—
Engineering and related technologists and technicians.....	3 259	391	2 521	484	917	114	18 886	2 834	14 331	1 738	449	66	124	33	534	67
Electrical and electronic technicians.....	383	39	301	25	248	14	9 252	722	8 305	643	153	15	38	10	37	14
Industrial engineering technicians.....	14	7	23	—	18	7	213	48	115	28	18	—	—	—	—	—
Mechanical engineering technicians.....	32	5	—	—	5	—	136	11	95	11	—	—	—	—	5	—
Engineering technicians, n.e.c.....	1 180	196	1 528	395	152	34	4 597	1 393	2 269	587	90	13	81	—	128	18
Drafting occupations.....	1 360	140	555	64	412	59	4 501	608	3 497	448	183	33	5	23	359	35
Surveying and mapping technicians.....	290	9	114	—	82	—	187	21	187	5	5	—	—	—	5	—
Science technicians.....	882	114	854	168	72	17	3 292	1 059	873	198	65	15	19	—	67	—
Biological technicians.....	78	10	70	18	—	—	1 032	41	60	19	—	—	—	—	—	—
Chemical technicians.....	410	60	422	113	22	7	1 051	250	211	20	15	5	—	—	22	—
Science technicians, n.e.c.....	384	44	362	37	50	10	1 209	398	602	159	45	3	19	—	45	—
Technicians, except health, engineering, and science.....	1 165	283	814	188	761	222	23 322	5 602	15 698	3 361	1 121	472	183	66	323	70
Aircraft pilots and navigators.....	—	—	24	—	9	—	1 029	21	506	21	7	—	10	—	51	—
Air traffic controllers.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators.....	94	21	72	32	32	11	421	45	335	36	—	—	—	—	5	—
Computer programmers.....	401	91	141	51	343	149	11 477	3 684	7 348	2 275	596	211	134	43	179	57
Tool programmers, numerical control.....	12	6	—	—	—	—	320	97	220	79	6	—	—	—	5	—
Legal assistants.....	28	12	37	30	25	25	800	618	429	373	241	233	15	9	2	2
Technicians, n.e.c.....	630	153	540	30	352	37	9 275	1 137	6 860	577	271	28	24	14	81	11
Sales occupations.....	2 261	801	1 763	399	982	495	1 045 889	146 258	573 776	64 322	86 399	5 177	22 015	4 023	31 190	2 892
Supervisors and proprietors, sales occupations.....	174	5	204	12	77	2	149 921	14 221	84 652	5 975	14 809	738	2 258	410	4 076	300
Salaries.....	174	5	137	8	77	2	109 119	9 554	63 381	4 200	11 374	517	1 432	276	3 141	276
Self-employed.....	—	—	67	8	—	—	40 802	4 667	21 271	1 775	3 435	221	826	134	935	59
Sales representatives, finance and business services.....	1 248	130	1 115	185	505	144	2 235	587	964	294	103	35	29	—	54	—
Insurance sales occupations.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Real estate sales occupations.....	20	—	6	—	26	—	726	99	321	42	22	—	8	—	19	—
Securities and financial services sales occupations.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Advertising and related sales occupations.....	—	—	—	—	—	—	1 509	488	643	252	81	35	21	—	35	—
Sales occupations, other business services.....	1 228	130	1 109	185	479	144	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail.....	56	—	46	—	7	—	808 504	105 520	427 113	48 060	44 865	2 378	19 190	3 321	26 104	2 180
Sales engineers.....	56	—	46	—	7	—	12 790	176	9 565	143	260	—	40	—	253	7
Sales representatives, mining, manufacturing, and wholesale.....	—	—	—	—	—	—	795 714	105 344	417 548	47 917	44 605	2 378	19 150	3 321	25 851	2 173
Sales workers, retail and personal services.....	776	666	398	202	386	349	82 798	24 969	50 212	9 672	26 484	2 010	412	266	944	145
Sales workers, commodities.....	46	—	48	12	—	—	49 990	3 857	48 549	3 705	24 910	1 369	86	38	131	40
Sales counter clerks.....	13	7	5	—	—	—	1 673	340	1 329	89	537	89	2	—	13	4
Cashiers.....	683	653	333	179	353	336	20 653	16 531	4 691	3 768	637	443	179	126	344	292
Street and door-to-door sales workers.....	28	6	6	—	26	13	8 991	3 943	5 356	1 947	362	102	139	102	437	95
News vendors.....	6	6	6	—	—	—	1 511	298	287	50	38	7	6	—	19	—
Sales related occupations.....	7	—	—	—	7	—	2 431	961	835	321	138	16	126	26	12	7
Demonstrators, promoters and models, sales.....	6	—	—	—	7	—	1 202	815	516	298	14	—	27	22	7	7
Auctioneers.....	1	—	—	—	—	—	939	63	160	19	124	16	13	—	—	—
Sales support occupations, n.e.c.....	—	—	—	—	—	—	290	83	139	4	—	—	86	4	5	—
Administrative support occupations, including clerical.....	36 531	21 669	17 138	12 052	10 437	6 796	898 715	659 217	492 467	359 475	65 945	43 442	18 600	14 166	28 173	20 666
Supervisors, administrative support occupations.....	2 411	1 040	1 113	381	750	316	50 419	20 979	26 732	11 137	3 398	1 082	1 130	498	1 810	726
Supervisors, general office.....	1 374	744	717	278	498	217	27 470	13 737	14 361	7 020	1 806	705	570	340	846	395
Supervisors, computer equipment operators.....	68	24	26	4	55	26	2 018	876	1 062	455	116	25	6	6	54	37
Supervisors, financial records processing.....	393	232	164	90	102	23	9 546	4 947	5 427	2 949	618	263	210	130	403	221
Chief communications operators.....	76	—	175	3	10	7	146	26	63	12	15	—	6	—	6	6
Supervisors, distribution, scheduling, and adjusting clerks.....	500	40	31	6	85	43	11 239	1 393	5 819	701	843	89	338	16	501	67
Computer equipment operators.....	852	577	287	181	338	164	29 598	22 598	16 439	12 474	2 603	1 806	579	460	785	687
Computer operators.....	817	551	277	179	314	147	30 876	21 651	15 851	12 057	2 484	1 712	531	497	728	650
Peripheral equipment operators.....	35	26	10	2	24	17	1 346	947	588	417	119	94	48	37	57	37

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Transportation, communications, and other public utilities—Con.				Utilities and sanitary services—Con.				Wholesale trade, total				Wholesale trade, durable goods				Lumber and construction materials			
	Water supply and irrigation		Sanitary services		Not specified utilities		Total		Total		Female		Total		Female		Total		Female	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations—Con.	7 224	7 021	5 314	5 245	2 057	2 005	217 531	214 493	122 136	120 491	11 193	11 040	4 382	4 303	7 399	7 232				
Administrative support occupations, including clerical—Con.	5 596	5 473	4 326	4 273	1 690	1 651	196 853	194 474	110 273	108 952	10 264	10 137	3 833	3 766	6 812	6 674				
Secretaries, stenographers, and typists	216	216	84	84	98	95	1 357	1 328	776	776	94	94	27	27	69	69				
Stenographers	1 412	1 332	904	888	269	259	19 321	18 691	11 087	10 772	835	809	522	510	518	489				
Typists	513	466	491	406	166	137	23 905	21 688	14 288	12 956	1 254	1 066	782	759	770	718				
Information clerks	33	40	28	10	38	14	3 046	2 564	1 625	1 386	61	128	76	61	140	94				
Interviewers	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Hotel clerks	321	316	307	291	93	93	16 543	16 157	10 069	9 792	787	755	593	585	627	606				
Transportation ticket and reservation agents	134	110	155	99	30	30	3 926	2 795	2 513	1 702	306	183	106	106	46	29				
Information clerks, n.e.c.	1 715	871	368	189	712	455	55 172	35 641	30 078	18 250	4 305	2 163	1 640	1 366	3 151	685				
Records processing occupations, except financial	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Classified-ad clerks	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Correspondence clerks	1 377	617	161	46	616	398	41 009	23 524	22 052	11 370	3 444	37	27	27	26	20				
Order clerks	35	31	40	25	14	14	911	817	428	380	66	59	3	3	5	5				
Personal clerks, except payroll and timekeeping	6	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Library clerks	251	181	140	104	62	43	10 164	8 995	6 011	5 359	614	573	267	236	272	222				
File clerks	40	30	14	14	5	5	1 621	1 194	884	609	116	78	40	30	44	28				
Records clerks	43	29	19	12	31	16	1 626	1 056	964	619	100	76	31	31	8	8				
Duplicating, mail, and other office machine operators	43	29	19	12	31	16	1 626	1 056	964	619	100	76	31	31	8	8				
Duplicating machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Mail preparing and paper handling machine operators	8	8	12	12	—	—	558	257	389	185	19	9	14	14	—	—				
Office machine operators, n.e.c.	35	21	7	—	14	7	828	606	446	327	56	42	17	17	8	8				
Communications equipment operators	181	150	85	23	147	128	5 426	5 117	3 397	3 199	405	372	153	153	203	190				
Telephone operators	181	150	85	23	129	122	5 272	5 028	3 296	3 142	405	372	144	144	196	190				
Telegraphers	—	—	—	—	18	6	99	85	52	33	—	—	—	—	7	—				
Communications equipment operators, n.e.c.	—	—	—	—	—	—	55	24	49	—	—	—	—	9	—	—				
Mail and message distributing occupations	343	166	197	28	112	43	9 115	3 405	4 170	1 710	622	178	205	76	154	61				
Postal clerks, except mail carriers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Mail carriers, postal service	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Mail clerks, except postal service	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Messengers	75	32	61	23	105	43	6 634	2 891	3 057	1 492	428	132	152	67	128	55				
Material recording, scheduling, and distributing clerks	11 179	1 334	2 631	512	1 889	289	160 414	43 020	92 205	24 726	16 545	4 260	3 435	1 004	4 518	844				
Dispatchers	636	111	493	158	88	6	7 599	2 119	3 824	1 526	248	46	6	6	556	518				
Production coordinators	287	110	339	92	235	87	8 213	3 692	3 740	1 483	499	138	113	45	139	20				
Traffic, shipping, and receiving clerks	129	21	98	6	5	5	66 739	10 154	38 857	5 366	6 020	692	1 670	241	1 531	183				
Stock and inventory clerks	781	116	502	108	207	34	59 224	20 056	36 509	12 585	8 078	2 956	1 244	491	1 647	428				
Meter readers	9 153	884	738	45	1 210	85	10 124	3 087	3 788	861	1 059	188	148	88	501	85				
Weights, measurers, and checkers	31	—	389	77	5	5	197	60	92	32	9	9	—	—	—	—				
Samplers	6	—	—	—	14	7	6 560	3 671	4 714	2 487	514	206	159	93	114	43				
Expeditors	121	70	37	26	73	47	15 903	8 284	10 079	5 052	1 102	392	505	372	296	110				
Material recording, scheduling, and distributing clerks, n.e.c.	35	22	35	13	13	13	1 758	1 063	681	386	118	34	40	40	30	22				
Adjusters and investigators	944	475	343	141	553	317	15 903	8 284	10 079	5 052	1 102	392	505	372	296	110				
Insurance adjusters, examiners, and investigators	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Investigators and adjusters, except insurance	359	175	134	48	375	214	12 078	5 959	7 609	3 583	952	302	414	309	205	73				
Eligibility clerks, social welfare	10	10	6	6	6	6	110	63	30	17	7	—	—	—	—	—				
Bill and account collectors	575	290	203	93	172	97	3 715	2 262	2 440	1 453	143	90	91	63	91	37				
Miscellaneous administrative support occupations	4 919	3 900	2 959	2 010	1 881	1 881	121 385	96 324	60 884	48 357	9 172	7 138	2 207	1 834	3 154	2 421				
General office clerks	3 830	3 134	2 340	1 664	1 789	1 454	84 623	67 302	41 459	33 009	5 855	4 515	1 696	1 412	2 383	1 856				
Bank tellers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Professors	—	—	—	—	8	8	304	250	103	80	8	8	10	10	—	—				
Data-entry keyers	566	543	176	152	240	233	23 553	21 738	12 095	11 548	2 234	2 162	302	298	462	420				
Statistical clerks	201	119	172	122	80	80	3 553	2 473	1 679	1 139	227	161	30	23	55	42				
Teachers' aides	13	13	6	57	—	—	77	51	24	17	—	—	—	—	—	—				
Administrative support occupations, n.e.c.	309	91	265	137	237	106	9 295	4 510	5 524	2 554	848	292	169	91	254	103				

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Transportation, communications, and other public utilities—Con.				Utilities and sanitary services—Con.				Wholesale trade, total				Total				Wholesale trade, durable goods				Total				Total			
	Water supply and irrigation		Sanitary services		Not specified utilities		Wholesale trade, total		Total		Female		Total		Female		Motor vehicles and equipment		Furniture and home furnishings		Total		Female		Total		Female	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	7 661	478	9 217	685	1 092	169	60 916	15 302	23 600	5 303	2 938	530	874	336	1 838	274												
Private household occupations	751	28	1 483	113	163	23	7 466	480	3 707	262	480	47	109	12	440	29												
Protective service occupations	39	—	39	—	7	—	13	7	13	7	—	—	—	—	—	—												
Supervisors, protective service occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—												
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—												
Supervisors, police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—												
Supervisors, guards	39	—	39	—	7	—	296	6	134	—	—	—	7	—	—	—												
Firefighting and fire prevention occupations	40	—	30	—	8	—	289	—	233	—	—	—	—	—	—	—												
Fire inspection and fire prevention occupations	21	—	16	—	7	—	164	—	117	—	—	—	—	—	—	—												
Firefighting occupations	19	—	14	—	8	—	125	—	116	—	—	—	—	—	—	—												
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—												
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—												
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—												
Correctional institution officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—												
Guards	672	28	1 414	106	148	23	6 858	467	3 317	255	448	47	102	12	438	29												
Crossing guards	6	—	—	—	—	—	21	—	13	—	—	—	—	—	—	—												
Guards and police, except public service	660	22	1 394	106	148	23	6 795	446	3 274	241	448	47	102	12	430	21												
Protective service occupations, n.e.c.	6	—	20	—	—	—	42	21	30	14	—	—	—	—	8	—												
Service occupations, except protective and household	6 910	450	7 734	572	929	146	53 450	14 822	19 893	5 041	2 458	483	765	324	1 398	245												
Food preparation and service occupations	93	31	46	—	33	13	9 733	5 600	1 470	881	308	186	—	—	40	5												
Supervisors, food preparation and service occupations	—	—	—	—	7	—	1 153	282	89	71	7	—	—	—	—	—												
Bartenders	10	—	—	—	—	—	172	61	35	7	—	—	—	—	—	—												
Waiters and waitresses	20	—	—	—	7	—	971	831	162	117	39	31	—	—	—	—												
Cooks, except short order	45	25	25	—	—	—	3 250	1 840	288	122	77	69	—	—	—	—												
Short-order cooks	—	—	—	—	—	—	41	29	24	—	—	—	—	—	—	—												
Food counter, fountain and related occupations	—	—	4	—	—	—	764	270	332	52	99	8	—	—	15	—												
Kitchen workers, food preparation	—	—	—	—	—	—	1 341	972	114	92	23	14	—	—	3	—												
Waiters and waitresses	—	—	—	—	—	—	301	161	64	52	17	17	—	—	8	—												
Miscellaneous food preparation occupations	18	6	4	—	19	6	1 740	1 154	246	190	46	40	—	—	—	—												
Health service occupations	20	13	89	34	6	—	482	326	115	66	23	12	—	—	5	—												
Dental assistants	—	—	—	—	—	—	5	—	5	—	—	—	—	—	—	—												
Health aides, except nursing	—	—	74	24	4	—	135	79	37	16	7	—	—	—	—	—												
Nursing aides, orderlies, and attendants	20	13	15	10	2	—	342	242	73	45	16	12	—	—	5	—												
Cleaning and building service occupations, except household	6 695	352	7 539	528	837	113	40 596	7 380	17 349	3 469	2 092	269	738	297	1 326	229												
Supervisors, cleaning and building service workers	60	—	395	2	15	—	986	84	388	55	35	—	—	—	34	—												
Maid and housemen	163	45	427	48	97	40	3 193	1 259	1 393	549	105	26	—	—	47	20												
Janitors and cleaners	6 429	307	6 282	416	725	73	35 089	5 988	15 151	2 829	1 929	236	583	200	1 245	209												
Elevator operators	8	—	—	—	—	—	1 156	49	417	36	—	—	—	—	—	—												
Pest control occupations	35	—	435	62	—	—	172	—	—	—	—	—	—	—	—	—												
Personal service occupations	102	54	60	10	53	18	2 639	1 516	959	625	35	16	27	27	27	6												
Supervisors, personal service occupations	13	6	5	—	—	—	502	114	208	101	4	—	—	—	—	—												
Barbers	13	5	10	—	—	—	42	25	25	—	—	—	—	—	—	—												
Hairstylists and cosmetologists	—	—	—	—	—	—	338	282	131	102	8	8	11	11	—	—												
Attendants, amusement and recreation facilities	—	—	6	—	12	—	166	74	76	19	15	—	—	—	—	—												
Guides	12	6	—	—	6	—	33	8	—	—	—	—	—	—	—	—												
Ushers	14	—	—	—	—	—	24	3	5	3	—	—	—	—	—	—												
Public transportation attendants	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—												
Baggage porters and bellhops	—	—	—	—	9	—	—	—	—	—	—	—	—	—	—	—												
Welfare service aides	30	25	5	—	—	—	476	225	83	56	—	—	—	—	—	—												
Child care workers, except private household	20	12	34	10	26	18	1 038	808	431	344	8	8	16	16	27	6												
Personal service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—												
Farming, forestry, and fishing occupations	852	38	819	61	105	—	8 045	2 152	1 589	152	130	1	5	—	570	36												
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—												
Farm occupations, except managerial	32	—	5	5	5	—	1 772	1 051	44	32	—	—	—	—	—	—												
Related agricultural occupations	753	35	803	56	100	—	4 136	885	647	55	98	1	5	—	83	12												
Supervisors, related agricultural occupations	10	—	28	—	—	—	79	—	4	—	—	—	—	—	—	—												
Animal caretakers, except farm	727	35	732	44	100	—	2 676	715	576	4	78	—	5	—	67	6												
Animal caretakers, except farm	16	—	14	5	—	—	1 363	162	81	25	20	1	5	—	16	6												
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—												
Inspectors, agricultural products	—	—	29	7	—	—	18	—	6	—	—	—	—	—	—	—												

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Transportation, communications, and other public utilities—Con.			Utilities and sanitary services—Con.			Wholesale trade, total			Wholesale trade, durable goods			Lumber and construction materials						
	Water supply and irrigation			Sanitary services			Not specified utilities			Total				Motor vehicles and equipment			Furniture and home furnishings		
	Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female	Total		Total	Female	Total	Total	Female	
United States																			
Employed persons 16 years and over—Con.																			
Farming, forestry, and fishing occupations—Con.																			
Forestry and logging occupations	36	3	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Supervisors, forestry and logging workers	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Forestry workers, except logging	32	3	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Timber cutting and logging occupations	31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Fishers, hunters, and trappers	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Captains and other officers, fishing vessels	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Fishers	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Hunters and trappers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Precision production, craft, and repair occupations	61 661	1 269	44 749	1 055	199	7 465	462 801	32 450	14 943	31 115	975	8 015	1 200	553					
Mechanics and repairers	13 386	160	9 778	60	39	2 024	222 081	4 439	3 688	19 985	306	452	55	78					
Supervisors, mechanics and repairers	652	4	586	—	—	1 220	7 855	150	6 239	950	—	32	—	290					
Mechanics and repairers, except supervisors	12 734	156	9 192	60	39	1 804	214 226	4 289	3 987	19 035	306	420	55	78					
Vehicle and mobile equipment mechanics and repairers	1 460	2	4 220	32	279	85 296	85 296	631	73 640	14 124	216	62	—	980					
Automobile mechanics	691	—	2 834	22	184	29 082	266	266	237	10 078	191	34	—	13					
Bus, truck, and stationary engine mechanics	101	—	967	10	5	12 527	35	35	2 001	26	6	—	—	7					
Aircraft engine mechanics	2	—	26	—	—	198	26	26	847	308	5	—	—	—					
Small engine repairers	4	—	4	—	—	14	1 484	14	321	14	5	—	—	—					
Automobile body and related repairers	38	—	69	—	—	11	2 352	46	1 969	31	14	2	—	6					
Aircraft mechanics, except engine	3	—	—	—	—	—	38	—	33	—	—	—	—	—					
Heavy equipment mechanics	257	—	299	—	—	52	12 798	20	11 932	316	—	20	—	127					
Farm equipment mechanics	364	2	21	—	—	8	26 057	224	25 199	61	—	—	—	22					
Industrial machinery repairers	1 908	2	2 278	9	218	218	21 786	386	15 064	75	23	75	23	496					
Machinery maintenance occupations	81	—	231	—	6	54	647	11	68	36	—	8	—	6					
Electrical and electronic equipment repairers	309	10	192	—	15	474	19 421	1 017	18 195	650	30	31	—	116					
Electronic repairers, communications and industrial equipment	167	—	42	—	5	168	4 768	182	4 507	322	7	3	—	17					
Data processing equipment repairers	11	2	—	—	—	5	7 298	536	7 109	73	10	7	—	—					
Household appliance and power tool repairers	34	8	40	—	—	119	4 156	90	3 764	37	—	26	—	—					
Telephone line installers and repairers	12	—	22	—	31	33	101	—	87	6	—	—	—	—					
Telephone installers and repairers	33	—	35	—	10	114	1 352	107	1 191	44	—	2	—	—					
Miscellaneous electrical and electronic equipment repairers	52	—	53	—	37	37	1 746	69	1 537	168	7	—	—	—					
Heating, air conditioning, and refrigeration mechanics	41	10	49	—	—	50	21 837	161	19 020	145	18	22	—	—					
Miscellaneous mechanics and repairers	8 935	132	2 222	19	15	777	64 270	2 040	53 206	3 417	35	222	32	52					
Camera, watch, and musical instrument repairers	29	—	32	14	2	2	1 275	188	1 176	180	—	11	—	—					
Locksmiths and safe repairers	—	—	—	—	—	—	550	29	529	2	—	8	—	—					
Office machine repairers	6	—	—	—	—	—	14 564	492	14 102	469	6	30	6	—					
Mechanical controls and valve repairers	7 006	118	257	5	8	207	654	46	487	40	1	—	—	—					
Elevator installers and repairers	15	—	—	—	—	6	3 508	24	3 296	15	—	—	—	—					
Millwrights	42	—	93	—	21	132	2 851	151	1 843	120	—	11	—	—					
Specified mechanics and repairers, n.e.c.	590	6	680	—	—	—	24 968	659	21 142	489	21	70	26	19					
Not specified mechanics and repairers	1 247	8	1 160	—	7	409	15 900	451	10 631	958	13	92	—	33					
Construction trades	12 489	160	7 227	172	37	3 487	47 594	1 203	40 095	1 245	40	3 660	110	136					
Supervisors, construction occupations	1 645	22	3 235	108	37	961	2 257	40	1 455	72	—	65	—	277					
Supervisors, brickmasons, stonemasons, and tile setters	—	—	—	—	—	—	31	—	31	—	—	11	—	—					
Supervisors, carpenters and related workers	6	—	—	—	—	—	108	—	81	—	—	20	—	—					
Supervisors, electricians and power transmission installers	101	—	89	7	—	45	332	10	231	—	—	6	—	—					
Supervisors, painters, paperhangers, and plasterers	—	—	—	—	—	—	29	—	—	—	—	—	—	—					
Supervisors, plumbers, pipefitters, and steamfitters	1 382	20	110	2	7	7	89	—	89	6	—	—	—	—					
Supervisors, n.e.c.	382	2	3 029	99	37	1 668	30	22	1 023	66	—	31	—	—					
Construction trades, except supervisors	10 844	138	3 992	64	—	2 526	45 337	1 163	38 640	1 173	40	3 595	110	136					
Brickmasons and stonemasons	92	—	193	7	—	6	390	11	384	—	—	5	—	—					
Tile setters, hard and soft	7	—	—	—	—	—	2 752	79	2 715	—	—	159	—	—					
Carpenters	324	6	301	—	—	107	6 657	209	4 834	194	—	361	74	4					
Drywall installers	—	—	—	—	—	—	106	7	85	—	—	20	20	46					
Electricians	1 172	13	875	28	—	575	7 905	253	6 250	252	5	39	3	—					
Electrical power installers and repairers	430	—	186	—	—	1 462	263	13	237	366	17	99	11	—					
Painters, construction and maintenance	284	—	430	13	—	32	3 573	236	2 329	—	—	—	—	—					
Paperhangers	—	—	—	—	—	—	67	9	7	—	—	—	—	—					

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Transportation, communications, and other public utilities—Con.				Wholesale trade, total				Wholesale trade, durable goods			
	Utilities and sanitary services—Con.				Not specified utilities				Total			
	Water supply and irrigation		Sanitary services		Total		Female		Motor vehicles and equipment		Furniture and home furnishings	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States												
Employed persons 16 years and over—Con.												
Precision production, craft, and repair occupations—Con.												
Construction trades—Con.												
Construction trades, except supervisors—Con.												
Plasterers	7 403	104	1 153	2	57	2	15 153	171	57	2	13 996	155
Plumbers, pipefitters, and steamfitters	39		44		12		114	12	100	12	61	12
Concrete and masonry finishers	17				2 086	52	2 013	52	113		1 735	35
Glaziers	26	13	4		11		1 379	56	2 444	56	684	32
Insulation workers	5				20		11		20		11	
Paving, surfacing, and tamping equipment operators			6		131	5	123	20	14		108	5
Roofers			11		2 465	20	2 439	20	5		69	
Sheetmetal duct installers	18		24		59	11	484	11	36	5	4	
Structural metal workers	72		6		1 353	9	900	22	477	7	282	25
Drillers, earth	955	2	742	14	186	17	109		5		8	
Construction trades, n.e.c.	36		62		109		150		17		7	
Extractive occupations	7				199		180		139		2	
Supervisors, extractive occupations	4		38		7		256	5				
Drillers, oil well	10				123	191	226	26 786	88 494	10 359	46	2
Explosives workers	6				90	1 025	122 460	12 799	59 330	5 413	7 442	339
Mining machine operators	10				161	1 611	19 304	1 409	16 286	1 064	6 497	252
Mining occupations, n.e.c.	9		10				1 066	30	877	25	475	35
Precision production occupations	35 750	949	27 682	823	1 911		192 226	26 786	9 880	639	3 903	1 035
Supervisors, production occupations	12 885	304	8 046	144	1 025		122 460	12 799	7 171	507	2 178	322
Precision metalworking occupations	495	15	486		161		19 304	1 409	2 207	25	90	5
Tool and die makers	25						1 066	30	877	25	475	35
Precision assemblers, metal							1 066	30	877	25	475	35
Machinists	419	7	448		97		9 642	364	7 583	20	56	5
Boilermakers	29	8	12		56		357	220	9		6	
Precision grinders, filers, and tool sharpeners							246	14	5		96	
Patternmakers and model makers, metal							215	109	3		14	
Patternmakers							172	32	122	13		
Lay-out workers							2 717	610	2 627	586		
Precious stones and metals workers (jewelers)	16		16		407		407	166	7		10	
Engravers, metal	6		5		4 274	62	4 274	62	69		17	
Sheet metal workers					31		31		19		26	
Miscellaneous precision metal workers												
Precision woodworking occupations	7		6		1 141		1 141	124	971	104	644	72
Patternmakers and model makers, wood	7				37		37	14	49	4	14	2
Cabinet makers and bench carpenters					607	34	607	34	528	19	335	4
Furniture and wood finishers			6		439	76	439	76	369	49	19	81
Miscellaneous precision woodworkers					38		38		5		15	
Precision textile, apparel, and furnishings machine workers	60		262	27	10		6 232	4 557	1 860	63	8	6
Dressmakers	41		221	12	8		4 557	4 388	55	35	659	11
Hatters	5						348	134	175	101	600	
Upholsterers	2						485	18	50		11	
Shoemakers	2		17				272	73	6		237	12
Apparel and fabric patternmakers							171	102	16		7	
Miscellaneous precision apparel and fabric workers	6		24	15	2		181	69	8		10	
Precision workers, assorted materials	39		94				6 720	2 300	135	13	40	7
Hand molders and shapers, except jewelers			36				306	26	296	7	19	
Patternmakers, lay-out workers, and cutters							97	25				
Optical goods workers	11		8				3 932	1 188	14			
Dental laboratory and medical appliance technicians	7						221	34	201			
Bookbinders							231	163	6			
Electrical and electronic equipment assemblers	21		43				1 231	818	24	3	7	13
Miscellaneous precision workers, n.e.c.							702	46	84	10	14	
Precision food production occupations	34	7	11				30 130	5 175	12	6	3	38
Bakers	28	7	11				24 784	3 594	438	53	3	38
Butchers and meat cutters	6						4 535	1 223	6	6		
Food batchmakers							811	358	16			
Precision inspectors, testers, and related workers	82	10	51	6	51		1 135	319	138	15		
Inspectors, testers, and graders	82	10	45	6	51		1 105	319	138	15		
Adjusters and calibrators			6	6	30		1 105	319	138	15		

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Transportation, communications, and other public utilities—Con.				Wholesale trade, total				Wholesale trade, durable goods			
	Utilities and sanitary services—Con.											
	Water supply and irrigation		Sanitary services		Not specified utilities		Total		Total		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
22 148	613	18 726	646	31	664	173	5 104	94	79	24	65	—
13 412	332	12 937	444	4	72	—	44	—	6	—	—	—
2 267	5	151	87	15	104	11	83	—	—	7	2	—
2 607	115	1 189	7	400	3 635	141	3 635	94	73	17	30	—
5 862	161	4 449	108	6	88	21	1 342	213	—	—	33	—
27 607	700	138 290	3 009	347	4 028	135 979	950 360	43 109	50 628	15 253	48 988	1 799
6 692	309	7 126	247	188	1 769	61 231	190 545	20 340	10 384	2 079	11 165	934
4 536	189	4 075	118	168	1 230	28 556	107 151	9 613	5 212	1 042	7 932	531
95	11	153	7	6	7	842	6 319	5 027	592	79	311	25
—	—	—	—	—	—	—	113	—	12	—	5	—
6	—	11	—	—	1	82	985	70	143	—	30	9
—	—	—	—	—	—	—	240	—	—	—	44	—
36	7	48	—	—	—	245	968	158	94	14	27	9
—	—	—	—	—	—	6	67	59	—	—	6	—
30	—	2	6	6	6	82	457	56	67	6	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
16	—	51	—	—	—	388	2 976	304	252	51	183	7
7	4	31	—	—	—	8	164	135	6	—	—	—
—	—	—	—	—	—	7	17	7	7	—	6	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	327	11	11	2	10	—
2	—	—	—	—	5	81	460	55	27	—	16	—
56	23	30	—	—	12	660	2 841	416	235	30	102	—
52	23	17	—	—	12	566	2 137	368	201	23	82	—
2	—	6	—	—	—	80	381	39	34	7	2	—
—	—	2	—	—	—	12	141	7	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
2	—	5	—	—	—	2	182	2	—	—	19	—
14	—	18	—	—	—	194	3 303	119	28	177	1 649	64
—	—	—	—	—	—	—	64	—	6	—	36	—
8	—	6	—	—	—	95	2 358	2 061	8	58	1 286	31
—	—	—	—	—	—	37	158	10	3	9	81	7
—	—	—	—	—	—	15	101	15	—	—	15	—
6	—	12	—	—	—	47	622	512	11	110	4	209
37	9	22	8	—	8	1 251	3 807	504	149	54	21	54
37	9	18	—	—	—	867	3 075	349	115	27	33	11
—	—	—	—	—	—	73	161	72	15	8	16	10
—	—	—	8	—	8	222	363	101	13	13	—	—
—	—	4	—	—	—	89	208	30	6	9	—	—
17	2	58	7	—	2	3 115	4 651	603	32	18	242	21
—	—	—	—	—	—	118	282	174	7	5	10	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	96	181	25	—	11	—	—
—	—	—	—	—	—	32	133	14	—	18	—	—
10	2	32	7	—	—	2 427	2 499	358	11	247	100	6
—	—	—	—	—	—	163	163	48	—	—	—	—
—	—	—	—	—	—	178	381	29	—	—	15	—
—	—	19	—	—	—	118	275	44	—	38	12	7
—	—	7	—	—	2	291	567	117	14	28	13	—
—	—	—	—	—	—	—	—	—	—	—	—	—
4 315	144	3 794	111	162	1 196	22 113	85 770	7 304	4 149	1 569	5 628	412
61	18	18	—	—	—	226	4 371	176	18	10	30	10
34	3	3	1	—	11	1 965	4 676	265	151	56	19	32
13	—	—	—	—	—	46	379	146	25	5	26	—
36	16	16	—	—	—	398	4 048	114	101	8	142	—
676	15	299	—	—	26	1 767	578	207	36	19	34	—
4	—	53	—	—	12	1 598	331	910	40	2	11	—
76	—	72	—	—	8	231	2 634	102	465	30	454	2
—	—	—	—	—	—	268	268	67	—	—	8	—
8	—	7	—	—	—	142	257	13	—	—	12	—

Employed persons 16 years and over—Con

Precision production, craft, and repair occupations—Con

Precision production occupations—Con.

Plant and system operators

Water and sewage treatment plant operators

Power plant operators

Stationary engineers

Miscellaneous plant and system operators

Operators, fabricators, and laborers

Machine operators, assemblers, and inspectors

Machine operators and tenders, except precision

Metalworking and plastic working machine operators

Lathe and turning machine set-up operators

Lathe and turning machine operators

Milling and planing machine operators

Punching and stamping press machine operators

Rolling machine operators

Drilling and boring machine operators

Grinding, abrading, buffing, and polishing machine operators

Forging machine operators

Numerical control machine operators

Miscellaneous metal, plastic, stone, and glass working machine operators

Fabricating machine operators, n.e.c.

Metal and plastic processing machine operators

Molding and casting machine operators

Metal plating machine operators

Heat treating equipment operators

Miscellaneous metal and plastic processing machine operators

Woodworking machine operators

Wood lathe, routing, and planing machine operators

Sawing machine operators

Shaping and joining machine operators

Nailing and tacking machine operators

Miscellaneous woodworking machine operators

Printing machine operators

Photoengraving machine operators

Photoengravers and lithographers

Typesetters and compositors

Miscellaneous printing machine operators

Textile, apparel, and furnishings machine operators

Winding and twisting machine operators

Knitting, looping, toping, and weaving machine operators

Textile cutting machine operators

Sheep machine operators

Pressing machine operators

Laundering and dry cleaning machine operators

Miscellaneous textile machine operators

Machine operators, assorted materials

Cementing and gluing machine operators

Packaging and filling machine operators

Extruding and forming machine operators

Mixing and blending machine operators

Separating, filtering, and clarifying machine operators

Compressing and compacting machine operators

Painting and paint spraying machine operators

Roasting and baking machine operators, food

Washing, cleaning, and picking machine operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Transportation, communications, and other public utilities—Con.				Wholesale trade, total				Wholesale trade, durable goods			
Utilities and sanitary services—Con.				Total				Total			
Sanitary services				Total				Total			
Not specified utilities				Total				Total			
Water supply and irrigation				Total				Total			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
25	—	—	—	727	305	94	12	2	—	24	—
153	—	324	—	2 133	180	1 275	120	35	7	204	17
13	—	52	—	2 583	175	3 460	44	24	—	51	7
27	—	25	—	10 986	2 477	6 800	851	151	27	1 293	56
—	—	—	—	27	9	11	—	—	—	—	—
11	—	13	—	1 021	475	689	325	16	15	30	21
809	63	794	48	17 279	4 952	8 061	1 758	1 543	192	935	40
2 369	61	2 118	44	35 016	10 031	16 025	3 442	1 603	452	2 340	228
1 119	82	1 488	35	48 201	12 856	36 771	8 182	4 269	836	2 272	263
797	5	1 110	11	18 636	520	15 847	440	1 437	46	666	8
7	—	—	—	417	257	399	251	10	10	—	—
292	70	357	24	26 686	11 267	19 478	7 227	2 741	739	903	239
—	—	4	—	1 054	335	288	35	16	9	170	15
11	—	2	—	313	80	173	19	4	—	5	—
12	—	15	—	448	138	242	106	44	36	23	6
—	—	—	—	39	14	35	14	—	—	8	—
—	—	—	—	110	18	99	18	—	—	5	—
—	—	—	—	498	227	210	80	12	5	12	—
1 037	38	1 563	94	35 193	20 119	7 349	2 545	903	201	191	150
945	16	1 437	83	9 837	3 754	4 011	1 443	404	50	120	91
23	—	37	11	532	161	359	117	56	6	—	6
25	—	62	—	506	290	94	44	—	—	53	—
44	22	27	—	24 318	15 914	2 885	941	443	145	18	53
9 125	148	50 034	519	447 732	11 085	141 786	5 018	19 712	2 188	5 895	232
3 681	83	43 896	472	386 227	8 885	110 494	3 842	16 445	1 965	5 069	179
53	—	561	—	4 489	97	505	37	89	5	25	—
3 047	59	39 976	421	186 798	2 519	62 849	952	5 819	391	2 269	106
316	12	817	8	122 991	3 904	37 240	1 859	7 754	1 023	2 467	73
62	—	97	—	65 575	1 669	6 493	410	1 088	54	178	—
27	12	9	2	59	25	188	15	32	2	66	15
150	—	791	21	5 642	596	3 065	518	1 546	452	90	—
8	—	50	14	265	30	123	30	68	16	8	—
18	—	1 595	6	37	11	31	11	15	7	—	—
19	—	26	—	282	13	150	—	30	—	5	—
—	—	—	—	29	7	7	—	—	—	—	—
19	—	5	—	151	6	75	—	6	—	5	—
—	—	21	—	93	—	59	—	15	—	—	—
—	—	—	—	9	—	9	—	9	—	—	—
198	8	61	—	954	36	210	15	5	—	40	—
32	—	30	—	405	2	139	2	5	—	30	—
26	—	8	—	430	28	50	7	—	—	10	—
9	—	—	—	101	3	3	—	—	—	—	—
131	—	23	—	18	6	18	6	—	—	—	—
5 227	57	6 051	47	60 269	2 151	30 932	1 161	3 232	223	826	53
8	—	35	—	2 816	240	2 035	212	156	8	56	—
861	—	1 539	5	878	14	660	171	37	—	171	—
—	—	—	—	45	—	25	—	—	—	—	—
—	—	—	—	221	—	151	—	9	—	—	—
5	—	258	19	7 857	112	104	31	—	—	63	—
214	—	414	—	843	29	693	25	7	—	223	4
1 658	5	552	137	380	9	311	8	—	—	106	—
188	20	1 503	4	41 186	899	16 377	367	2 368	57	4 429	32
322	6	1 024	7	6 043	849	3 221	445	605	158	721	17
1 971	26	726	12	—	—	—	—	—	—	40	—

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Machine operators, assemblers, and inspectors—Con.
 Machine operators and tenders, except precision—Con.
 Machine operators, assorted materials—Con.
 Folding machine operators—
 Cutters, knit, and open operators except food—
 Sewing machine operators—
 Slicing and cutting machine operators—
 Motor picture projectionists—
 Photographic process machine operators—
 Miscellaneous machine operators, n.e.c.—
 Machine operators, not specified—
 Fabricators, assemblers, and hand working occupations—
 Welders and cutters—
 Solderers and brazers—
 Assemblers—
 Hand cutting and trimming occupations—
 Hand molding, casting, and forming occupations—
 Hand painting, coating and decorating occupations—
 Hand engraving and printing occupations—
 Hand grinding and polishing occupations—
 Miscellaneous hand working occupations—
 Production inspectors, testers, samplers, and weighers—
 Production inspectors, checkers, and examiners—
 Production testers—
 Production samplers and weighers—
 Graders and sorters, except agricultural—
 Transportation and material moving occupations—
 Motor vehicle operators—
 Supervisors, motor vehicle operators—
 Truck drivers, heavy—
 Truck drivers, light—
 Driver-sales workers—
 Bus drivers—
 Taxicab drivers and chauffeurs—
 Parking lot attendants—
 Motor transportation occupations, n.e.c.—
 Rail transportation occupations—
 Railroad conductors and yardmasters—
 Locomotive operating occupations—
 Railroad brake, signal, and switch operators—
 Rail vehicle operators, n.e.c.—
 Water transportation occupations—
 Ship captains and mates, except fishing boats—
 Sailors and deckhands—
 Marine engineers—
 Bridge, lock, and lighthouse tenders—
 Material moving equipment operators—
 Supervisors, material moving equipment operators—
 Operating engineers—
 Longshore equipment operators—
 Hoist and winch operators—
 Crane and tower operators—
 Excavating and loading machine operators—
 Grader, dozer, and scraper operators—
 Industrial truck and tractor equipment operators—
 Miscellaneous material moving equipment operators—

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Employed persons 16 years and over—Con.

	11 790	243	81 130	2 243	1 301	136	312 083	63 663	124 662	17 751	20 532	3 694	5 688	1 030	13 204	633
Operators, fabricators, and laborers—Construction workers, equipment cleaners, helpers, and laborers, n.e.c.	48	—	300	—	18	—	365	30	140	16	19	—	7	—	30	8
Helpers, mechanics and repairers	83	2	114	6	27	—	153	42	818	34	4	—	—	—	99	26
Helpers, construction and extractive occupations	277	2	114	—	13	—	1 336	41	1 196	32	16	3	70	—	107	5
Helpers, construction trades	229	—	108	—	6	—	1 319	41	1 184	32	16	3	70	—	107	2
Helpers, surveyor	48	2	—	—	6	—	17	—	—	—	—	—	—	—	—	—
Helpers, extractive occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Construction laborers	1 993	18	778	3	265	—	1 825	108	1 112	70	48	—	23	—	400	24
Production helpers	227	4	269	—	45	7	3 716	437	2 057	116	513	18	37	15	114	1
Freight, stock, and material handlers	35	35	56	1 309	144	—	72 170	5 448	21 111	1 589	3 281	327	1 134	95	4 211	134
Garbage collectors	495	7	35	2 174	281	—	240	6	170	—	—	—	—	—	18	—
Stockyarders and borganes	—	—	32	—	—	—	264	—	78	—	10	—	14	—	23	—
Stockyarders and borganes	31	16	110	9	19	—	19 384	3 434	6 730	1 041	1 785	281	205	46	785	11
Machine feeders and rffkeepers	5	—	85	6	—	—	1 966	730	461	86	14	—	9	405	105	17
Machine feeders and rffkeepers	59	5	986	20	37	—	51 092	1 271	13 972	462	1 472	46	926	45	3 665	106
Freight, stock, and material handlers, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Garage and service station related occupations	57	—	588	6	39	—	4 372	252	2 741	40	2 129	34	14	2	30	—
Vehicle washers and equipment cleaners	111	3	479	24	—	—	3 321	356	1 548	142	702	69	18	2	30	9
Hand packers and packagers	54	3	177	47	13	—	28 926	1 656	6 793	6 793	2 668	1 321	887	411	108	108
Laborers, except construction	8 345	178	21 799	848	777	122	173 003	28 052	79 693	8 919	11 057	1 918	3 478	507	7 822	407

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Wholesale trade, durable goods—Con.														
Sporting goods, toys, and hobby goods			Metals and minerals, except petroleum		Electrical goods		Hardware, plumbing and heating supplies		Not specified electrical and hardware products		Machinery, equipment, and supplies		Scrap and waste materials	
Total	Female		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over														
48 003	17 612	107 278	23 690	245 894	75 167	234 967	55 397	1 801	552	837 220	218 070	115 210	15 896	
9 399	1 913	19 330	2 805	51 067	8 853	37 135	5 803	369	57	158 339	28 699	15 938	1 700	
8 598	1 698	18 310	2 684	45 570	8 116	35 358	5 422	340	46	133 331	24 133	15 394	1 624	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-				

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

Wholesale trade, durable goods—Con.													
Sporting goods, toys, and hobby goods		Metals and minerals, except petroleum		Electrical goods		Hardware, plumbing and heating supplies		Not specified electrical and hardware products		Machinery, equipment, and supplies		Scrap and waste materials	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con													
Managerial and professional specialty occupations—Con.													
Professional specialty occupations—Con.													
14	6	57	2	82	6	20	—	6	—	385	100	58	—
8	6	9	—	33	—	—	—	—	—	100	5	—	—
—	—	28	2	41	6	12	—	—	—	193	60	58	—
—	—	—	—	—	—	—	—	—	—	29	6	—	—
—	—	20	—	8	—	—	—	6	—	21	8	—	—
6	—	—	—	—	—	8	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	19	8	—	—
—	—	—	—	—	—	—	—	—	—	23	13	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
5	—	—	—	—	—	—	—	—	—	74	—	—	—
5	—	—	—	—	—	—	—	—	—	8	—	—	—
—	—	—	—	—	—	—	—	—	—	26	—	—	—
—	—	—	—	—	—	—	—	—	—	13	—	—	—
—	—	—	—	—	—	—	—	—	—	27	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—										

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

United States

United States

Employed persons 16 years and over—Con.

	Sporting goods, toys, and hobby goods		Metals and minerals, except petroleum		Electrical goods		Hardware, plumbing and heating supplies		Not specified electrical and hardware products		Machinery, equipment, and supplies		Scrap and waste materials	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations	27 704	12 541	44 402	19 049	144 087	57 905	114 992	44 641	969	405	433 819	169 354	27 913	10 814
Technicians and related support occupations	662	139	1 018	233	5 729	764	1 582	231	22		18 265	2 898	352	60
Health technologists and technicians	5	5	—	—	30	12	9	—	—	—	81	11	—	—
Clinical laboratory technologists and technicians	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dental hygienists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Health record technologists and technicians	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Radiologic technicians	—	—	—	—	6	6	7	—	—	—	30	7	—	—
Licensed practical nurses	—	—	—	—	18	18	2	—	—	—	283	105	—	—
Health technologists and technicians, n.e.c.	—	—	—	—	5	5	—	—	—	—	—	—	—	—
Engineering and related technologists and technicians	271	32	543	88	3 590	346	725	71	14		7 663	942	192	15
Electrical and electronic technicians	210	6	47	10	2 979	255	82	11	9		4 608	281	20	—
Industrial engineering technicians	—	—	10	10	12	—	17	—	—	—	34	—	6	—
Mechanical engineering technicians	—	—	—	—	14	—	4	—	—	—	72	11	—	—
Engineering technicians, n.e.c.	33	13	145	20	232	46	335	40	—	—	1 200	433	85	2
Drafting occupations	28	13	334	48	339	37	281	20	5		1 741	209	81	13
Surveying and mapping technicians	—	—	7	—	14	8	6	—	—	—	8	—	—	—
Science technicians	35	15	37	7	137	45	55	13	—	—	422	95	20	—
Biological technicians	—	—	—	—	27	12	26	—	—	—	106	—	—	—
Chemical technicians	—	—	19	7	2	32	26	—	—	—	287	89	10	—
Science technicians, n.e.c.	35	15	18	—	108	39	26	13	—	—	9 786	1 738	140	45
Technicians, except health, engineering, and science	351	107	438	138	1 972	361	793	147	8		302	6	18	—
Airplane pilots and navigators	5	—	41	—	42	15	21	—	—	—	—	—	—	—
Air traffic controllers	—	—	—	—	—	—	—	—	—	—	82	3	—	—
Aviation mechanics	—	—	—	—	14	14	27	19	—	—	4 725	1 285	70	25
Broadcast equipment operators	23	—	281	123	667	273	384	109	8		182	66	15	9
Computer programmers	141	62	—	—	—	—	14	7	—	—	96	45	—	—
Tool programmers, numerical control	—	—	4	—	38	33	—	—	—	—	4 399	313	37	11
Legal assistants	—	—	112	4	1 032	26	347	12	—	—	—	—	—	—
Technicians, n.e.c.	182	45	—	—	—	—	—	—	—	—	—	—	—	—
Sales occupations	12 816	2 296	20 015	2 162	72 892	10 122	57 879	4 697	477	37	230 724	26 240	14 484	1 331
Sales representatives, sales occupations	1 442	206	1 513	83	8 209	729	9 080	456	54		9 962	2 103	7 192	317
Supervisors and proprietors, sales occupations	1 063	132	1 296	73	6 887	601	6 713	284	32		26 865	1 625	2 165	103
Saloried	379	74	212	10	1 322	128	2 367	172	22		5 097	478	5 027	214
Self-employed	39	11	22	—	198	73	134	46	—		266	89	38	—
Sales representatives, finance and business services	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Insurance sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Real estate sales occupations	—	—	22	—	90	15	45	16	—		66	11	38	—
Securities and financial services sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Advertising and related sales occupations	39	11	—	—	108	58	89	30	—		200	78	—	—
Sales occupations, other business services	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	10 855	1 774	17 898	1 905	59 109	7 945	45 977	3 202	375	37	177 399	20 491	5 178	539
Sales engineers	56	—	294	—	2 255	37	1 161	—	21		5 004	99	23	—
Sales representatives, mining, manufacturing, and wholesale	10 799	1 774	17 604	1 905	56 854	7 908	44 816	3 202	354	37	172 395	20 392	5 155	539
Sales workers, retail and personal services	440	290	582	174	5 227	1 268	2 658	678	48		20 768	3 434	2 074	475
Sales workers, commodities	49	—	69	10	3 353	406	969	109	39		17 392	1 656	1 499	98
Sales counter clerks	26	12	30	—	182	36	325	52	4		207	56	12	—
Cashiers	262	209	75	48	476	399	589	501	—		1 329	1 126	502	357
Street and door-to-door sales workers	105	63	416	116	1 187	427	766	363	5		1 702	566	61	20
News vendors	18	6	8	—	29	—	9	—	—		138	30	—	—
Sales related occupations	20	15	—	—	149	107	30	15	—		329	123	2	—
Demonstrators, promoters and models, sales	20	15	—	—	149	107	19	15	—		253	120	—	—
Auctioneers	—	—	—	—	—	—	—	—	—		19	3	2	—
Sales support occupations, n.e.c.	—	—	—	—	—	—	—	—	—		57	—	—	—
Administrative support occupations, including clerical	14 226	10 086	23 369	16 654	65 466	47 019	55 531	39 713	470	368	184 830	140 216	13 077	9 423
Supervisors, administrative support occupations	1 005	500	1 540	541	3 677	1 480	2 506	1 042	18		9 651	4 390	466	149
Supervisors, general office	477	277	744	297	1 973	830	1 467	675	18		5 244	2 863	259	116
Supervisors, computer equipment operators	51	42	30	—	118	51	82	48	—		571	217	17	—
Supervisors, financial records processing	223	129	375	126	841	528	457	245	—		1 969	1 097	74	18
Chief communications operators	—	—	—	—	14	—	—	—	—		22	—	—	—
Supervisors, distribution, scheduling, and adjusting clerks	254	52	391	6	731	71	500	74	—		1 845	213	—	—
Computer equipment operators	519	388	781	599	2 362	1 875	1 525	1 172	7		6 491	4 833	116	4
Computer operators	514	383	753	579	2 311	1 848	1 523	1 170	7		6 254	4 671	194	101
Peripheral equipment operators	5	5	28	20	51	27	2	2	—		6 254	4 671	175	11

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Wholesale trade, durable goods—Con.											
Sporting goods, toys, and hobby goods			Metals and minerals, except petroleum			Electrical goods			Hardware, plumbing and heating supplies		
Total	Female		Total	Female		Total	Female		Total	Female	
2 926	2 897		6 522	6 385		15 331	15 200		13 610	13 428	
2 600	2 579		5 582	5 582		13 647	13 534		12 341	12 175	
16	16		96	96		94	94		74	74	
310	302		733	707		1 590	1 572		1 195	1 179	
383	375		856	791		2 181	1 790		1 799	1 608	
106	104		89	83		320	224		145	119	
12	12		7	2		20	11		27	10	
236	236		654	639		1 323	1 298		1 269	1 269	
29	29		106	67		518	257		337	210	
1 096	719		1 395	831		4 178	2 691		3 370	1 492	
34	28		50	33		39	34		29	29	
834	495		859	376		2 994	1 600		2 549	764	
10	10		6	6		46	46		2	2	
171	151		396	362		930	879		626	591	
41	29		43	13		130	93		126	80	
2 791	2 480		4 239	3 780		13 029	11 813		14 642	13 039	
2 326	2 066		3 258	2 948		10 544	9 746		12 567	11 506	
137	139		163	148		276	272		180	174	
235	211		582	507		1 334	1 219		1 022	835	
70	64		201	130		663	376		813	452	
23	10		35	27		212	200		80	72	
27	17		51	15		57	53		45	45	
—	—		33	6		13	9		—	—	
27	17		18	9		35	35		45	45	
64	64		306	278		658	616		274	259	
64	64		294	278		630	594		268	253	
—	—		12	—		7	7		6	6	
112	62		178	64		486	204		473	220	
—	—		—	—		—	—		—	—	
93	57		105	58		406	191		353	194	
19	5		73	6		80	13		120	26	
3 248	961		4 418	1 118		13 702	3 858		10 274	2 034	
178	71		266	146		360	214		396	123	
117	57		371	186		431	181		278	123	
1 756	353		1 653	189		6 371	761		4 481	466	
1 053	324		1 711	678		5 131	1 785		4 301	991	
82	49		177	14		175	55		297	38	
—	—		6	—		35	15		—	—	
100	62		222	73		1 118	806		420	190	
62	45		12	—		81	41		101	72	
430	307		261	169		1 646	870		620	346	
286	182		210	130		1 245	598		390	221	
144	125		51	39		375	266		230	125	
1 625	1 316		2 823	2 183		8 199	6 369		6 373	5 028	
1 187	982		1 734	1 340		5 223	4 134		4 752	3 646	
15	9		10	10		18	18		—	—	
283	278		671	633		1 905	1 815		1 227	1 176	
22	18		113	64		255	181		99	70	
—	—		294	136		749	419		295	136	
118	29		—	—		—	—		—	—	

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.
 Administrative support occupations, including dental—Con
 Secretaries, stenographers, and typists—
 Stenographers—
 Typists—
 Information clerks—
 Interviewers—
 Hotel clerks—
 Transportation ticket and reservation agents—
 Receptionists—
 Information clerks, n.e.c.—
 Records processing occupations, except financial—
 Classified-ad clerks—
 Correspondence clerks—
 Order clerks—
 Personnel clerks, except payroll and timekeeping—
 Library clerks—
 File clerks—
 Records clerks—
 Financial records processing occupations—
 Bookkeepers, accounting, and auditing clerks—
 Payroll and timekeeping clerks—
 Billing clerks—
 Cost and rate clerks—
 Billing, posting, and calculating machine operators—
 Duplicating, mail, and other office machine operators—
 Duplicating machine operators—
 Mail preparing and paper handling machine operators—
 Office machine operators, n.e.c.—
 Communications equipment operators—
 Telephone operators—
 Telegraphers—
 Communications equipment operators, n.e.c.—
 Mail and message distributing occupations—
 Postal clerks, except mail carriers—
 Mail carriers, except postal service—
 Mail clerks, except postal service—
 Messengers—
 Material recording, scheduling, and distributing clerks—
 Dispatchers—
 Production coordinators—
 Traffic, shipping, and receiving clerks—
 Stock and inventory clerks—
 Meter readers—
 Weighers, measurers, and checkers—
 Samplers—
 Expeditors—
 Material recording, scheduling, and distributing clerks, n.e.c.—
 Adjusters and investigators—
 Insurance adjusters, examiners, and investigators—
 Investigators and adjusters, except insurance—
 Elementary clerks, sales and service—
 Bill and account collectors—
 Miscellaneous administrative support occupations—
 General office clerks—
 Bank tellers—
 Proofreaders—
 Data-entry keyers—
 Statistical clerks—
 Teachers' aides—
 Administrative support occupations, n.e.c.—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

Wholesale trade, durable goods—Con.													
United States													
Sporting goods, toys, and hobby goods		Metals and minerals, except petroleum		Electrical goods		Hardware, plumbing and heating supplies		Not specified electrical and hardware products		Machinery, equipment, and supplies		Scrap and waste materials	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
531	133	1 458	322	2 089	586	1 880	477	33	10	8 967	2 174	2 115	253
78	20	234	5	362	39	128	2	—	—	1 017	72	548	36
23	—	5	—	27	7	8	—	—	—	38	—	6	—
8	—	—	—	7	—	—	—	—	—	8	—	—	—
15	—	5	—	20	—	8	—	—	—	30	—	6	—
6	—	—	—	—	—	—	—	—	—	150	—	5	—
6	—	—	—	—	—	—	—	—	—	48	—	5	—
—	—	—	—	—	—	—	—	—	—	102	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—			

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Wholesale trade, durable goods—Con.														
	Sporting goods, toys, and hobby goods		Metals and minerals, except petroleum		Electrical goods		Hardware, plumbing and heating supplies		Not specified electrical and hardware products		Machinery, equipment, and supplies		Scrap and waste materials	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con.														
Forestry and logging occupations	6	—	22	6	2	2	22	16	—	—	57	1	37	—
Supervisors, forestry and logging workers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Forestry workers, except logging	—	—	22	6	—	—	22	16	—	—	27	—	25	—
Timber cutting and logging occupations	6	—	—	—	2	2	—	—	—	—	30	1	12	—
Fishers, hunters, and trappers	2	—	—	—	6	—	—	—	—	—	16	—	—	—
Captains and other officers, fishing vessels	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fishers	2	—	—	—	—	—	—	—	—	—	6	—	—	—
Hunters and trappers	—	—	—	—	6	—	—	—	—	—	—	—	—	—
Precision production, craft, and repair occupations														
Mechanics and repairers	3 185	627	11 025	311	21 619	2 137	49 436	997	184	10	148 244	6 245	17 268	327
Supervisors, mechanics and repairers	1 449	89	2 260	47	9 263	478	23 130	226	77	—	113 229	1 976	10 401	103
Mechanics and repairers, except supervisors	22	—	204	4	3 343	13	318	18	7	—	3 629	41	353	—
Vehicle and mobile equipment mechanics and repairers	1 427	89	2 056	43	8 923	465	22 812	208	70	—	109 600	1 935	10 048	103
Automobile mechanics	107	—	432	8	578	5	1 086	—	17	—	51 011	323	5 125	10
Truck, bus, and stationary engine mechanics	40	—	224	8	375	5	578	—	17	—	5 961	24	4 046	10
Bus, truck, and stationary engine mechanics	36	—	58	8	49	—	81	—	—	—	7 708	21	248	—
Aircraft engine mechanics	—	—	16	—	35	—	24	—	—	—	718	26	2	—
Small engine repairers	15	—	7	—	11	—	39	—	—	—	895	9	15	—
Automobile body and related repairers	—	—	3	—	14	—	42	—	—	—	219	6	288	—
Aircraft mechanics, except engine	—	—	—	—	—	—	—	—	—	—	27	—	—	—
Heavy equipment mechanics	7	—	104	—	71	—	260	—	—	—	10 571	19	446	—
Form equipment mechanics	9	—	20	—	23	—	62	—	—	—	24 912	218	80	—
Industrial machinery repairers	192	2	581	—	497	18	586	6	—	—	11 299	150	530	18
Machinery maintenance occupations	14	—	47	—	26	—	14	—	10	—	322	5	91	—
Electrical and electronic equipment repairers	165	34	98	17	5 800	276	1 535	28	26	—	9 517	499	73	8
Electronic repairers, communications and industrial equipment	63	—	17	5	2 604	91	92	—	21	—	1 315	63	8	—
Data processing equipment repairers	28	17	33	7	322	52	29	21	5	—	6 560	389	8	—
Household appliance and power tool repairers	8	—	14	—	1 538	57	1 227	7	—	—	829	6	16	—
Telephone line installers and repairers	7	—	9	—	12	—	9	—	—	—	38	13	—	—
Telephone installers and repairers	34	10	10	5	524	48	139	—	—	—	341	—	14	—
Miscellaneous electrical and electronic equipment repairers	25	—	15	—	800	28	39	—	—	—	434	28	27	—
Heating, air conditioning, and refrigeration mechanics	—	—	61	—	282	—	17 886	132	3	—	538	2	49	—
Miscellaneous mechanics and repairers	949	53	837	18	1 740	166	1 705	42	14	—	36 913	956	4 180	67
Camera, watch, and musical instrument repairers	281	9	27	—	33	—	62	—	—	—	157	35	6	—
Locksmiths and safe repairers	—	—	—	—	33	—	138	17	—	—	284	6	7	—
Office machine repairers	82	9	5	—	91	27	29	—	—	—	13 816	427	—	—
Mechanical controls and valve repairers	—	—	7	—	38	8	22	—	—	—	328	29	8	—
Elevator installers and repairers	—	—	4	—	26	—	17	—	—	—	3 205	15	3	—
Millwrights	6	—	147	—	83	13	79	—	—	—	1 031	85	39	—
Specified mechanics and repairers, n.e.c.	388	19	332	4	831	43	465	6	7	—	11 815	174	3 353	59
Not specified mechanics and repairers	192	16	315	14	605	69	893	19	7	—	6 277	185	764	8
Construction trades														
Supervisors, construction occupations	206	31	1 395	39	4 263	218	16 378	168	42	—	5 483	104	617	18
Supervisors, brickmasons, stonemasons, and tile setters	21	6	67	—	250	—	285	16	6	—	322	—	76	—
Supervisors, carpenters and related workers	—	—	—	—	—	—	4	—	6	—	—	—	—	—
Supervisors, electricians and power transmission installers	—	—	19	—	170	—	15	—	—	—	23	—	9	—
Supervisors, painters, paperhangers, and plasterers	—	—	—	—	—	—	76	—	—	—	16	—	5	—
Supervisors, plumbers, pipefitters, and steamfitters	—	—	—	—	7	—	190	16	—	—	—	—	—	—
Supervisors, n.e.c.	21	6	48	—	73	—	—	—	—	—	283	—	62	—
Construction trades, except supervisors	185	25	1 328	39	4 013	218	16 093	152	36	—	5 161	104	541	18
Brickmasons and stonemasons	—	—	23	—	2	—	45	—	—	—	59	—	12	—
Tile setters, hard and soft	7	7	—	—	13	—	6	—	—	—	—	—	—	—
Carpet installers	—	—	—	—	—	—	—	—	—	—	29	—	16	—
Carpenters	61	10	201	—	182	6	298	—	7	—	825	16	136	—
Drywall installers	—	—	13	—	19	—	5	—	—	—	2	—	—	—
Electricians	11	—	301	14	3 302	171	543	7	22	—	1 406	6	181	—
Electrical power installers and repairers	7	—	22	—	93	—	36	—	—	—	53	—	6	—
Painters, construction and maintenance	36	3	121	8	132	19	103	7	—	—	1 250	30	88	—
Paperhangers	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Wholesale trade, durable goods—Con.													
Sporting goods, toys, and hobby goods		Metals and minerals, except petroleum		Electrical goods		Hardware, plumbing and heating supplies		Not specified electrical and hardware products		Machinery, equipment, and supplies		Scrap and waste materials	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
Precision production, craft, and repair occupations—Con.													
Construction trades—Con.													
Construction trades, except supervisors—Con.													
Plasterers													
18	5	157	—	118	—	12 351	123	—	—	1 028	7	—	36
Plumbers, pipefitters, and steamfitters													
—	—	4	—	—	—	41	—	—	—	29	—	—	—
Concrete and terrazzo finishers													
—	—	43	—	33	6	384	8	—	—	69	17	—	—
Glaziers													
—	—	—	—	—	—	—	—	—	—	98	10	—	—
Insulation workers													
—	—	—	—	—	—	—	—	—	—	9	—	—	—
Paving, surfacing, and tamping equipment operators													
—	—	—	—	—	—	10	—	—	—	—	—	—	—
Roofers													
—	—	202	10	35	10	2 170	—	—	—	10	—	—	8
Sheetmetal duct installers													
—	—	209	—	—	—	5	—	—	—	84	—	—	55
Structural metal workers													
—	—	3	—	14	6	—	—	—	—	10	—	—	—
Driers, earth													
45	—	29	—	70	—	82	5	7	—	200	—	—	9
Construction trades, n.e.c.													
5	—	219	—	15	—	2	—	2	—	181	—	23	—
Extractive occupations													
5	—	6	—	—	—	—	—	—	—	28	—	—	—
Supervisors, extractive occupations													
—	—	—	—	—	—	2	—	—	—	15	—	—	—
Driers, all well													
—	—	32	—	—	—	—	—	—	—	50	—	—	—
Explosives workers													
—	—	114	—	5	—	—	—	—	—	48	—	—	—
Mining machine operators													
—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mining occupations, n.e.c.													
—	—	67	—	10	—	—	—	2	—	40	—	—	12
Precision production occupations													
1 525	507	7 151	225	8 078	1 441	9 926	603	63	10	29 351	4 165	6 227	206
1 155	285	5 222	171	5 792	651	6 154	506	29	—	17 527	2 109	5 660	160
72	13	1 664	24	744	68	3 226	52	14	—	4 655	190	387	16
Precision metalworking occupations													
5	—	56	—	108	—	96	6	—	—	440	19	3	—
Tool and die makers													
—	—	—	—	—	—	—	—	—	—	113	5	6	—
Precision assemblers, metal													
4	—	—	—	—	—	—	—	—	—	3 536	80	246	7
Machinists													
42	—	611	5	494	68	272	6	—	—	32	—	—	—
Boilermakers													
—	—	31	—	13	—	122	—	7	—	78	4	2	—
Precision grinders, filers, and tool sharpeners													
2	2	6	—	—	—	21	—	—	—	33	25	13	—
Patternmakers and model makers, metal													
—	—	22	5	30	—	12	5	—	—	82	13	2	—
Lay-out workers													
—	—	24	—	2	—	—	—	7	—	82	14	6	—
Precision stones and metals workers (jewelers)													
11	11	30	—	—	—	6	—	—	—	19	19	—	—
Engravers, metal													
4	4	2	—	19	—	13	13	—	—	226	11	109	9
Sheet metal workers													
4	—	877	14	78	—	2 677	22	—	—	14	—	—	—
Miscellaneous precision metal workers													
—	—	5	—	—	—	—	—	—	—	—	—	—	—
Precision woodworking occupations													
—	—	12	2	15	5	15	—	—	—	101	5	22	12
Patternmakers and model makers, wood													
—	—	6	2	8	—	2	—	—	—	—	—	—	—
Cabinet makers and bench carpenters													
—	—	6	—	2	—	13	—	—	—	68	—	—	—
Furniture and wood finishers													
—	—	—	—	5	—	—	—	—	—	26	5	21	12
Miscellaneous precision woodworkers													
—	—	—	—	5	—	—	—	—	—	7	—	—	—
Precision textile, apparel, and furnishings machine workers													
186	180	—	—	78	24	5	—	—	—	447	229	12	12
167	167	—	—	24	18	—	—	—	—	203	184	12	12
Dressmakers													
—	—	—	—	—	—	—	—	—	—	41	22	—	—
Tailors													
12	6	—	—	45	—	—	—	—	—	114	13	—	—
Upholsterers													
—	—	—	—	—	—	—	—	—	—	79	13	—	—
Shoe repairers													
—	—	—	—	—	—	—	—	—	—	10	10	—	—
Apparel and fabric patternmakers													
7	7	—	—	9	6	5	—	—	—	—	—	—	—
Miscellaneous precision apparel and fabric workers													
—	—	—	—	—	—	—	—	—	—	—	—	—	—
Precision workers, assorted materials													
40	6	39	7	846	551	59	7	20	10	4 632	1 436	43	4
Hand molders and shapers, except jewelers													
—	—	—	—	13	—	9	—	—	—	42	—	—	—
Patternmakers, lay-out workers, and others													
13	—	16	7	—	—	8	—	—	—	5	—	—	—
Optical goods workers													
6	—	—	—	19	—	5	—	—	—	3 778	1 177	27	4
Dental laboratory and medical appliance technicians													
—	—	—	—	—	—	6	—	—	—	176	29	6	—
Bookbinders													
6	6	—	—	11	6	16	—	—	—	20	20	—	—
Electrical and electronic equipment assemblers													
7	—	—	—	746	545	—	—	—	—	312	185	—	—
Miscellaneous precision workers, n.e.c.													
8	—	23	—	57	—	15	—	—	—	299	25	10	—
Precision food production occupations													
38	16	57	—	48	12	72	23	—	—	235	10	21	—
Butchers and meat cutters													
5	5	51	—	48	12	72	23	—	—	175	10	21	—
Bakers													
33	11	6	—	—	—	—	—	—	—	44	10	—	—
Food batchmakers													
—	—	—	—	—	—	—	—	—	—	16	—	—	—
Precision inspectors, testers, and related workers													
4	—	59	21	266	124	35	15	—	—	455	105	28	2
Inspectors, testers, and graders													
4	—	59	21	266	124	35	15	—	—	433	105	28	2
Adjusters and calibrators													
—	—	—	—	—	—	—	—	—	—	22	—	—	—

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Construction trades—Con.

Construction trades, except supervisors—Con.

Plumbers, pipefitters, and steamfitters

Concrete and terraazzo finishers

Glaziers

Insulation workers

Paving, surfacing, and tamping equipment operators

Roofers

Sheetmetal duct installers

Structural metal workers

Drillers, earth

Construction trades, n.e.c.

Extrusive occupations

Supervisors, extractive occupations

Drillers, oil well

Explosives workers

Mining machine operators

Mining occupations, n.e.c.

Precision production occupations

Supervisors, production occupations

Precision metalworking occupations

Tool and die makers

Machinists

Precision assemblers, metal

Ball bearings

Precision grinders, files, and tool sharpeners

Patternmakers and model makers, metal

Low-out workers

Precision stones and metals workers (jewelers)

Engravers, metal

Sheet metal workers

Miscellaneous precision metal workers

Precision woodworking occupations

Patternmakers and model makers, wood

Cabinet makers and bench carpenters

Furniture and wood finishers

Miscellaneous precision woodworkers

Precision textile, apparel, and furnishings machine workers

Dressmakers

Tailors

Upholsterers

Shoe repairers

Apparel and fabric patternmakers

Miscellaneous precision apparel and fabric workers

Precision workers, assorted materials

Hand molders and shapers, except jewelers

Patternmakers, lay-out workers, and cutters

Optical goods workers

Dental laboratory and medical appliance technicians

Bookbinders

Electrical and electronic equipment assemblers

Miscellaneous precision workers, n.e.c.

Precision food production occupations

Butchers and meat cutters

Bakers

Food batchmakers

Precision inspectors, testers, and related workers

Inspectors, testers, and graders

Adjusters and calibrators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Wholesale trade, durable goods—Con.													
United States													
Employed persons 16 years and over—Con													
Precision production, craft, and repair occupations—Con													
Precision production occupations—Con.													
Plant and system operators													
Water and sewage treatment plant operators													
Power plant operators													
Stationary engineers													
Miscellaneous plant and system operators													
Operators, fabricators, and laborers													
Machine operators, assemblers, and inspectors													
Machine operators and tenders, except precision													
Metaworking and plastic working machine operators													
Lathe and turning machine operators													
Milling and planing machine operators													
Punching and stamping press machine operators													
Rolling machine operators													
Drilling and boring machine operators													
Grinding, abrading, buffing, and polishing machine operators													
Forging machine operators													
Numerical control machine operators													
Miscellaneous metal, plastic, stone, and glass working machine operators													
Fabricating machine operators, n.e.c.													
Metal and plastic processing machine operators													
Molding and casting machine operators													
Metal planing machine operators													
Heat treating equipment operators													
Miscellaneous metal and plastic processing machine operators													
Woodworking machine operators													
Wood lathe, routing, and planing machine operators													
Sawing machine operators													
Shaping and joining machine operators													
Nailing and tacking machine operators													
Miscellaneous woodworking machine operators													
Printing machine operators													
Photographers and lithographers													
Typesetters and compositors													
Miscellaneous printing machine operators													
Textile, apparel, and furnishings machine operators													
Winding and twisting machine operators													
Knitting, looping, taping, and weaving machine operators													
Textile cutting machine operators													
Textile sewing machine operators													
Shoe machine operators													
Pressing machine operators													
Laundering and dry cleaning machine operators													
Miscellaneous textile machine operators													
Machine operators, assorted materials													
Cementing and gluing machine operators													
Packaging and filling machine operators													
Extruding and forming machine operators													
Mixing and blending machine operators													
Separating, filtering, and clarifying machine operators													
Compressing and compacting machine operators													
Painting and paint spraying machine operators													
Roasting and baking machine operators, food													
Washing, cleaning, and picking machine operators													
Sporting goods, toys, and hobby goods		Metals and minerals, except petroleum		Electrical goods		Hardware, plumbing and heating supplies		Not specified electrical and hardware products		Machinery, equipment, and supplies		Scrap and waste materials	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
30	7	98	—	289	6	360	—	—	—	1 299	81	54	—
—	—	5	—	5	—	—	—	—	—	20	—	—	—
—	—	79	—	258	6	353	—	—	—	1 171	81	44	—
30	7	—	—	26	—	7	—	—	—	108	—	9	—
7 165	2 392	31 015	1 197	26 960	5 662	31 456	3 457	246	70	87 463	11 571	51 882	2 791
2 064	1 140	11 055	692	8 559	3 871	4 731	1 210	92	38	27 146	6 115	12 824	1 430
1 071	502	7 432	378	3 662	1 305	2 445	566	48	7	11 930	2 993	7 148	840
35	13	671	12	238	60	429	58	—	—	1 921	276	421	30
—	—	28	—	—	—	—	—	—	—	68	—	—	—
—	—	83	8	63	13	70	6	—	—	442	21	35	6
—	—	15	—	6	—	17	—	—	—	89	—	2	—
9	7	106	—	40	15	70	26	—	—	282	53	79	12
—	—	29	—	—	—	—	—	—	—	24	—	—	—
—	—	54	1	38	—	30	6	—	—	195	49	—	—
19	6	268	3	58	23	216	20	—	—	736	147	164	12
—	—	36	—	13	—	15	—	—	—	55	—	10	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	—	52	—	20	9	11	—	—	—	30	—	131	—
—	—	71	7	71	19	32	22	—	—	30	5	124	—
42	17	316	21	221	60	140	43	—	—	518	130	342	30
36	17	186	11	142	39	100	43	—	—	370	113	273	30
—	—	46	10	58	14	16	—	—	—	94	15	8	—
6	—	64	—	7	7	20	—	—	—	11	—	7	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	20	—	14	—	4	—	—	—	43	2	54	—
25	9	445	—	10	—	45	—	—	—	268	39	36	—
—	—	413	—	—	—	—	—	—	—	17	—	—	—
9	—	27	—	—	—	32	—	—	—	121	16	28	—
—	—	—	—	—	—	—	—	—	—	22	—	—	—
16	9	5	—	10	—	7	—	—	—	7	—	—	—
—	—	—	—	—	—	6	—	—	—	101	23	8	—
99	43	78	10	220	116	148	67	—	—	610	168	—	—
83	36	70	10	167	75	133	58	—	—	481	119	—	—
9	—	—	—	5	—	6	6	—	—	21	—	—	—
7	—	—	—	41	41	—	—	—	—	93	34	—	—
—	—	8	—	7	—	3	3	—	—	15	15	—	—
33	33	56	17	64	44	21	3	6	—	243	157	127	34
3	3	9	—	5	5	—	—	6	—	21	6	8	—
—	—	14	6	—	—	—	—	—	—	—	—	—	—
—	—	12	—	—	—	8	3	—	—	102	75	31	—
30	30	5	—	6	—	—	—	—	—	23	18	—	—
—	—	—	—	8	—	—	—	—	—	9	—	5	—
—	—	5	—	—	—	—	—	—	—	33	20	28	12
—	—	11	11	45	39	13	—	—	—	55	38	41	8
837	387	5 795	311	2 838	1 006	1 630	373	42	7	8 340	2 218	6 098	744
7	7	14	8	5	5	18	12	—	—	37	24	2	—
8	2	74	26	14	14	20	20	—	—	394	94	20	—
—	—	23	6	8	—	8	2	—	—	46	16	19	—
8	3	12	—	39	24	4	—	—	—	203	35	23	—
5	—	14	—	17	—	—	—	—	—	111	32	31	17
2	—	42	—	19	10	—	—	—	—	49	13	725	44
28	9	105	21	98	5	32	—	8	—	551	111	102	6
9	—	2	—	7	7	6	6	—	—	25	—	37	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Wholesale trade, durable goods—Con.															
Sporting goods, toys, and hobby goods			Metals and minerals, except petroleum			Electrical goods		Hardware, plumbing and heating supplies		Not specified electrical and hardware products		Machinery, equipment, and supplies		Scrap and waste materials	
Total	Female		Total	Female		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.															
Operators, fabricators, and laborers—Con.															
Machine operators, assemblers, and inspectors—Con.															
Machine operators and tenders, except precision—Con.															
Machine operators, assorted materials—Con.															
5	—	22	—	—	—	11	—	—	—	—	—	18	—	7	—
9	9	154	—	37	78	50	37	—	—	—	—	195	27	520	23
—	—	53	—	5	9	5	—	—	—	—	—	105	37	98	—
22	7	2 057	21	34	168	199	34	27	—	—	—	581	135	1 606	374
—	—	6	—	—	—	—	—	—	—	—	—	5	—	—	—
221	118	20	—	32	23	62	18	—	—	—	—	288	105	7	—
164	71	1 095	82	358	289	964	74	—	—	—	—	1 730	607	834	66
349	161	2 094	147	480	975	1 350	214	—	—	—	—	3 988	1 082	2 067	207
Machine operators, not specified															
882	567	3 234	247	2 173	2 019	4 113	534	31	—	—	—	13 346	2 406	4 281	163
74	14	2 509	38	647	705	647	38	—	—	—	—	5 962	126	3 650	39
22	22	—	—	109	27	109	22	—	—	—	—	144	86	26	—
712	484	663	209	1 966	1 190	3 305	466	31	—	—	—	7 040	2 126	552	105
13	13	32	—	—	—	10	—	—	—	—	—	33	5	2	—
7	—	9	—	—	46	—	—	—	—	—	—	18	—	16	—
22	16	15	—	—	9	—	—	—	—	—	—	66	25	6	—
—	—	6	—	—	—	—	—	—	—	—	—	14	7	—	—
8	—	—	—	—	26	—	—	—	—	—	—	4	—	—	—
24	18	—	—	36	16	—	—	—	—	—	—	65	31	29	—
Miscellaneous hand working occupations															
Production inspectors, testers, samplers, and weighers															
111	71	389	67	784	267	884	393	110	—	—	—	1 870	716	1 395	427
77	37	282	55	607	233	607	294	100	—	—	—	1 448	559	1 64	47
—	—	7	—	93	21	93	39	5	—	—	—	153	53	6	—
—	—	9	—	—	—	—	—	—	—	—	—	12	—	16	—
34	34	91	12	84	23	84	60	5	—	—	—	257	98	1 209	380
Graders and sorters, except agricultural															
Transportation and material moving occupations															
1 651	77	11 494	125	8 245	12 459	8 245	296	235	—	—	—	34 933	1 230	20 175	283
287	55	7 195	88	6 832	10 777	6 832	148	171	—	—	—	29 940	948	12 671	165
26	—	—	—	—	—	—	—	—	—	—	—	193	26	16	—
593	21	5 469	32	2 916	5 556	2 916	23	79	—	—	—	14 577	174	11 091	84
447	26	1 418	14	3 315	4 487	3 315	95	76	—	—	—	11 199	406	1 170	66
180	8	168	9	432	498	432	12	10	—	—	—	3 394	310	98	—
12	—	—	—	—	—	—	—	—	—	—	—	54	6	—	—
29	—	84	13	140	186	140	10	6	—	—	—	522	26	280	11
—	—	6	—	14	6	14	8	—	—	—	—	21	—	16	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	—	31	—	10	—	10	—	—	—	—	—	16	—	51	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	—	21	—	10	—	10	—	—	—	—	—	16	—	10	—
—	—	8	—	—	—	—	—	—	—	—	—	—	—	36	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	—	8	—	—	—	—	—	—	—	—	—	—	—	—	—
6	—	—	—	—	27	—	—	6	—	—	—	113	9	11	—
—	—	—	—	—	—	—	—	—	—	—	—	91	2	7	—
—	—	8	—	—	6	—	—	—	—	—	—	22	7	4	—
—	—	—	—	—	3	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	18	—	—	6	—	—	—	—	—	—	—
351	22	4 260	57	1 403	1 655	1 403	148	58	—	—	—	4 844	273	7 442	118
62	—	191	—	150	79	150	6	2	—	—	—	321	31	29	—
—	—	65	—	11	20	11	—	—	—	—	—	154	—	178	—
—	—	—	—	—	14	—	—	—	—	—	—	—	—	11	—
—	—	15	—	12	—	—	—	—	—	—	—	—	—	6	—
—	—	2 312	55	57	55	57	16	5	—	—	—	467	8	4 288	16
8	—	16	—	3	261	3	—	18	—	—	—	67	—	135	8
—	—	59	—	—	—	—	—	—	—	—	—	—	—	134	2
254	12	1 187	2	947	1 031	947	85	15	—	—	—	2 817	95	2 306	48
27	10	346	—	223	195	223	41	18	—	—	—	924	139	395	49

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Machine operators, assemblers, and inspectors—Con.
 Machine operators and tenders, except precision—Con.
 Machine operators, assorted materials—Con.
 Folding machine operators
 Furnace, kiln, and oven operators, except food
 Crushing and grinding machine operators
 Slicing and cutting machine operators
 Motion picture projectionists
 Photographic process machine operators
 Miscellaneous machine operators, n.e.c.
 Machine operators, not specified
 Fabricators, assemblers, and hand working occupations
 Welders and cutters
 Solderers and brazers
 Assemblers
 Hand cutting and trimming occupations
 Hand molding, casting, and forming occupations
 Hand painting, coating and decorating occupations
 Hand engraving and printing occupations
 Hand grinding and polishing occupations
 Miscellaneous hand working occupations
 Production inspectors, testers, samplers, and weighers
 Production inspectors, checkers, and examiners
 Production testers
 Production samplers and weighers
 Graders and sorters, except agricultural
 Transportation and material moving occupations
 Motor vehicle operators
 Supervisors, motor vehicle operators
 Truck drivers, heavy
 Truck drivers, light
 Driver-sales workers
 Bus operators and chauffeurs
 Taxis and cabs
 Parking lot attendants
 Motor transportation occupations, n.e.c.
 Rail transportation occupations
 Railroad conductors and yardmasters
 Locomotive operating occupations
 Railroad brake, signal, and switch operators
 Rail vehicle operators, n.e.c.
 Water transportation occupations
 Ship captains and mates, except fishing boats
 Sailors and deckhands
 Marine engineers
 Bridge, lock, and lighthouse tenders
 Material moving equipment operators
 Supervisors, material moving equipment operators
 Operating engineers
 Longshore equipment operators
 Hoist and winch operators
 Crane and tower operators
 Excavating and loading machine operators
 Grader, dozer, and scraper operators
 Industrial truck and tractor equipment operators
 Miscellaneous material moving equipment operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Wholesale trade, durable goods—Con											
Sporting goods, toys, and hobby goods	Metals and minerals, except petroleum		Electrical goods		Hardware, plumbing and heating supplies		Not specified electrical and hardware products		Machinery, equipment, and supplies		Scrap and waste materials
Total	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total
3 450	1 175	380	10 156	1 495	14 266	2 012	86	32	25 384	4 226	18 883
—	—	—	13	—	17	—	—	—	29	8	12
—	—	6	14	—	146	—	30	5	436	5	38
—	—	—	30	—	814	21	—	—	77	6	9
—	—	—	30	—	814	21	—	—	65	6	9
—	—	—	—	—	—	—	—	—	12	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
27	—	57	55	6	166	6	—	—	200	22	121
38	23	15	171	16	177	5	—	—	362	6	124
458	101	29	1 749	125	2 359	137	7	7	3 729	419	1 929
—	—	—	3	—	—	—	—	—	4	—	145
—	—	—	—	—	21	—	—	—	—	—	—
255	97	122	947	99	1 051	102	7	7	1 588	295	137
14	4	61	20	8	47	6	—	—	98	35	30
189	—	1 806	779	18	1 220	29	—	—	2 039	99	1 597
—	—	19	7	—	205	6	—	—	274	—	55
4	—	50	59	6	60	6	—	—	464	32	132
990	587	127	1 302	575	1 640	828	9	9	3 843	1 895	1 21
1 931	464	199	6 756	767	8 712	1 003	40	11	15 750	1 842	16 133

Employed persons 16 years and over—Con

Operators, fabricators, and laborers—Con
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers,
 n e c
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garage collectors
 Stock handlers and buyers
 Machine feeders and operators
 Freight, stock, and material handlers, n e c
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Wholesale trade, durable goods—Con.						Wholesale trade, nondurable goods											
	Miscellaneous wholesale, durable goods			Total			Paper and paper products			Drugs, chemicals, and allied products			Apparel, fabrics, and notions			Groceries and related products		
	Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female	Total
Employed persons 16 years and over	86 290	33 500	2 019 040	573 173	107 230	35 399	160 897	57 878	120 541	745 237	184 460	98 902	24 452					
Managerial and professional specialty occupations	18 117	4 523	345 455	64 675	19 084	4 359	32 399	6 724	22 757	94 283	15 283	29 482	2 738					
Executive, administrative, and managerial occupations	16 151	3 936	315 017	54 928	17 731	3 842	27 245	5 612	19 892	89 381	14 043	28 508	2 541					
Legislators, chief executives, and general administrators; public administration	—	—	—	—	—	—	—	—	—	—	—	—	—					
Administrators and officials, public administration	—	—	—	—	—	—	—	—	—	—	—	—	—					
Federal	—	—	—	—	—	—	—	—	—	—	—	—	—					
State	—	—	—	—	—	—	—	—	—	—	—	—	—					
Local	—	—	—	—	—	—	—	—	—	—	—	—	—					
Administrators, protective services	—	—	19	8	—	—	—	—	—	—	—	—	—					
Financial managers	751	280	11 674	3 107	1 098	387	1 287	314	1 025	3 173	704	277	41					
Personnel and labor relations managers	191	86	4 503	1 053	148	56	386	111	175	1 549	381	238	21					
Purchasing managers	119	38	1 838	248	181	25	739	51	157	30	448	131	8					
Managers, marketing, advertising, and public relations	2 699	359	55 435	4 376	3 826	369	7 391	797	3 781	613	793	1 065	6					
Administrators, education and related fields	2	—	203	38	—	—	14	—	22	43	12	—	—					
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—					
Managers, properties and real estate	21	7	310	17	4	—	23	—	6	53	11	14	—					
Postmasters and mail superintendents	—	—	—	—	—	—	—	—	—	—	—	—	—					
Federal directors	—	—	13	2	—	—	6	—	—	—	—	—	—					
Managers and administrators, n.e.c.	9 205	2 155	175 368	29 064	9 025	1 677	13 038	2 570	11 171	2 929	7 130	12 274	1 013					
Salaries	8 348	1 941	162 520	26 589	8 696	1 611	12 616	2 411	10 477	2 754	6 640	11 525	900					
Self-employed	857	214	12 848	2 475	329	—	422	159	694	175	490	715	113					
Management related occupations	3 163	1 011	65 654	17 015	3 449	1 318	4 891	1 769	3 555	1 585	4 977	14 509	1 452					
Accountants and auditors	800	338	19 633	7 887	988	406	1 895	700	917	488	2 539	1 188	435					
Underwriters	—	—	10	—	—	—	—	—	—	—	—	—	—					
Other financial officers	66	37	1 443	401	72	24	136	36	78	13	92	44	—					
Management analysts	64	13	1 723	437	82	43	280	89	111	61	362	72	6					
Personnel, training, and labor relations specialists	197	64	4 671	1 269	197	58	477	247	251	96	370	285	49					
Purchasing agents and buyers, farm products	—	—	15 481	1 271	—	—	—	—	—	—	—	—	—					
Buyers, wholesale and retail trade except farm products	1 916	512	21 877	5 434	2 100	777	2 025	657	2 155	918	1 513	12 911	957					
Purchasing agents and buyers, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—					
Business and promotion agents	95	42	266	112	4	4	22	9	16	9	42	6	—					
Construction inspectors	—	—	30	9	—	—	—	—	—	—	—	—	—					
Inspectors and compliance officers, except construction	13	5	239	28	—	—	31	6	21	—	17	7	—					
Management related occupations, n.e.c.	12	—	281	147	6	6	25	25	6	—	18	7	5					
Professional specialty occupations	1 966	587	30 438	9 747	1 353	517	5 154	1 112	2 865	1 892	1 240	974	197					
Engineers, architects, and surveyors	267	23	6 218	376	271	8	1 453	49	154	49	93	138	—					
Architects	8	—	118	16	20	—	15	—	—	—	—	—	—					
Engineers	259	23	6 095	360	251	8	1 438	49	154	49	93	138	—					
Aerospace engineers	26	—	26	—	—	—	—	—	—	—	—	—	—					
Metallurgical and materials engineers	—	—	66	9	—	—	43	5	—	—	—	—	—					
Mining engineers	—	—	18	—	—	—	—	—	—	—	—	—	—					
Petroleum engineers	—	—	636	17	—	—	69	—	—	—	—	—	—					
Chemical engineers	10	—	812	48	23	3	482	23	—	—	—	—	—					
Nuclear engineers	—	—	—	—	—	—	—	—	—	—	—	—	—					
Civil engineers	25	—	435	5	7	—	48	—	6	—	—	—	—					
Agricultural engineers	—	—	41	—	—	—	—	—	—	—	—	—	—					
Electrical and electronic engineers	63	—	418	8	58	—	53	—	—	—	—	—	—					
Industrial engineers	48	17	964	163	35	5	118	2	96	45	58	36	—					
Mechanical engineers	7	—	763	10	38	—	142	6	33	4	—	17	—					
Marine engineers and naval architects	—	—	82	5	—	—	—	—	—	—	—	—	—					
Engineers, n.e.c.	80	6	1 834	95	90	—	483	13	19	—	28	33	—					
Surveyors and mapping scientists	—	—	5	—	—	—	—	—	—	—	—	—	—					
Mathematical and computer scientists	180	57	3 062	712	197	53	446	103	65	22	137	215	29					
Computer systems analysts and scientists	147	51	1 819	397	116	22	258	50	30	8	478	133	13					
Operations and systems researchers and analysts	33	6	902	153	73	31	113	21	12	—	20	62	9					
Actuaries	—	—	5	—	—	—	—	—	—	—	—	—	—					
Statisticians	—	—	314	142	8	—	59	23	23	14	5	20	7					
Mathematical scientists, n.e.c.	—	—	22	15	—	—	16	9	—	—	—	—	—					

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction For meaning of symbols, see Introduction For definitions of terms, see appendix A]

Wholesale trade, durable goods—Con.		Wholesale trade, nondurable goods												
Miscellaneous wholesale, durable goods		Total		Paper and paper products		Drugs, chemicals, and allied products		Apparel, fabrics, and notions		Groceries and related products		Farm products—raw materials		
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
Employed persons 16 years and over—Con														
Managerial and professional specialty occupations—Con														
Professional specialty occupations—Con														
Natural scientists	210	2	3 722	784	29	11	1 264	251	14	5	410	106	144	21
Physicists and astronomers	6	—	19	—	—	—	10	—	—	—	3	—	—	—
Chemists, except biochemists	6	—	1 720	310	23	11	1 005	188	9	—	219	60	37	7
Atmosphere and space scientists	7	—	16	11	—	—	6	6	5	—	5	—	—	—
Geologists and geodesists	6	—	648	141	—	—	13	—	—	—	—	—	9	7
Physical scientists, n.e.c.	—	—	19	5	—	—	12	—	—	—	5	5	2	—
Agricultural and food scientists	19	2	938	226	—	—	44	—	—	—	130	27	89	7
Biological and life scientists	2	—	239	70	6	23	118	49	7	—	41	7	7	—
Forestry and conservation scientists	153	—	49	13	—	—	—	—	—	—	—	—	—	—
Medical scientists	11	—	74	8	—	—	56	8	—	—	7	—	—	—
Health diagnosing occupations	—	—	145	—	—	—	76	—	—	—	16	—	17	—
Physicians	—	—	74	—	—	—	64	—	—	—	—	—	—	—
Dentists	—	—	31	—	—	—	12	—	—	—	10	—	—	—
Veterinarians	—	—	29	—	—	—	—	—	—	—	—	—	17	—
Optometrists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Podiatrists	—	—	11	—	—	—	—	—	—	—	6	—	—	—
Health diagnosing practitioners, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Health assessment and treating occupations	23	10	761	365	20	6	426	195	46	8	119	77	9	7
Registered nurses	18	10	211	182	6	6	92	86	8	8	37	24	2	2
Pharmacists	—	—	344	77	—	—	260	69	38	—	—	—	—	—
Dietitians	5	—	151	86	14	—	29	28	—	—	82	53	7	5
Therapists	—	—	49	14	—	—	45	12	—	—	—	—	—	—
Physicians' assistants	—	—	6	6	—	—	—	—	—	—	—	—	—	—
Teachers, postsecondary	—	—	110	33	—	—	13	8	26	13	20	6	13	—
Teachers, except postsecondary	17	6	630	278	61	18	72	48	49	42	101	54	16	2
Teachers, kindergarten and kindergarten	—	—	8	8	—	—	—	—	—	—	—	—	—	—
Teachers, elementary and secondary school	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, special education	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, n.e.c.	2	2	6	6	61	18	72	48	49	42	101	54	16	2
Counselors, educational and vocational	15	4	616	264	—	—	5	—	—	—	—	—	6	—
Librarians, archivists, and curators	6	6	36	21	—	—	5	5	—	—	—	—	6	—
Librarians	23	6	184	109	6	34	27	27	12	—	24	15	6	6
Librarians	17	6	153	103	—	—	37	27	12	—	18	9	6	6
Archivists and curators	6	—	31	6	—	—	7	—	—	—	6	6	—	—
Social scientists and urban planners	196	40	3 179	826	136	66	561	150	237	100	693	184	77	2
Economists	181	33	3 132	801	127	57	561	150	237	100	686	184	77	2
Psychologists	8	—	7	—	—	—	—	—	—	—	—	—	—	—
Sociologists	—	—	4	—	—	—	—	—	—	—	—	—	—	—
Social scientists, n.e.c.	7	7	25	16	4	4	—	—	—	—	—	—	—	—
Urban planners	—	—	11	5	5	5	—	—	—	—	—	—	—	—
Social, recreation, and religious workers	19	2	197	24	12	6	7	7	14	7	88	—	10	—
Social workers	17	—	115	12	12	6	7	—	7	—	35	—	10	—
Recreation workers	2	2	42	5	—	—	—	—	—	—	20	—	—	—
Clergy	—	—	33	7	—	—	—	—	7	7	26	—	—	—
Religious workers, n.e.c.	—	—	7	—	—	—	—	—	—	—	—	—	—	—
Lawyers and judges	38	—	934	64	15	—	135	—	17	—	213	23	53	21
Lawyers	38	—	934	64	15	—	135	—	17	—	213	23	53	21
Judges	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	987	435	11 260	6 155	612	349	642	276	2 231	1 646	1 422	545	270	109
Authors	—	—	33	17	16	8	15	—	8	—	14	7	—	—
Technical writers	—	—	157	63	304	176	256	104	1 822	1 356	49	22	2	2
Designers	524	285	6 312	3 919	—	—	—	—	—	—	325	105	32	14
Musicians and composers	17	—	51	18	—	—	6	—	—	—	1	—	—	—
Actors and directors	26	17	68	10	—	—	23	3	—	—	24	—	2	—
Painters, sculptors, craft-artists, and artist printmakers	69	32	1 283	724	99	59	116	34	195	117	227	131	5	5
Photographers	10	—	91	24	—	—	7	—	—	—	7	—	8	—
Dancers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Artists, performers, and related workers, n.e.c.	20	8	158	108	—	—	—	—	30	—	38	26	—	—
Editors and reporters	44	—	790	549	70	63	44	36	47	23	111	54	56	48
Public relations specialists	18	—	212	698	105	43	195	99	129	103	611	198	109	19
Announcers	277	75	2 212	21	12	—	—	—	—	—	2	2	—	—
Athletes	—	—	84	23	6	—	—	—	—	—	13	—	56	21

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Occupation	Wholesale trade, durable goods—Con.		Wholesale trade, nondurable goods											
	Miscellaneous wholesale, durable goods		Total		Paper and paper products		Drugs, chemicals, and allied products		Apparel, fabrics, and notions		Groceries and related products		Farm products—raw materials	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations	48 521	23 370	893 445	386 122	58 637	26 102	90 206	42 152	69 038	34 073	258 983	105 932	32 091	18 591
Technicians and related support occupations	856	303	15 084	4 444	892	159	3 752	1 234	403	166	3 467	1 211	551	121
Health technologists and technicians	31	—	156	246	6	—	256	157	15	15	96	44	—	—
Clinical laboratory technologists and technicians	6	—	198	126	6	—	139	102	—	—	36	21	—	—
Dental hygienists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Health record technologists and technicians	5	—	7	—	7	—	—	—	—	—	—	—	—	—
Radiologic technicians	7	—	23	7	—	—	—	—	—	—	—	—	—	—
Licensed practical nurses	13	—	93	63	—	—	32	32	8	8	34	12	—	—
Health technologists and technicians, n.e.c.	—	—	165	50	—	—	85	23	7	7	19	11	—	—
Engineering and related technologists and technicians	226	78	4 555	1 096	306	64	1 323	373	83	41	753	244	80	17
Electrical and electronic technicians	122	41	947	79	162	13	194	12	38	21	116	20	22	—
Industrial engineering technicians	18	—	98	20	13	—	17	—	6	—	13	—	3	—
Mechanical engineering technicians	—	—	41	—	—	—	6	—	—	—	2	—	—	—
Engineering technicians, n.e.c.	16	2	2 328	806	77	21	897	345	30	18	415	188	42	11
Drafting occupations	65	17	1 004	160	35	11	204	16	7	2	188	30	13	6
Surveying and mapping technicians	5	—	137	31	18	13	5	—	2	—	19	6	—	—
Science technicians	16	8	2 419	861	42	11	730	250	47	25	646	334	166	11
Biological technicians	2	—	972	392	14	—	31	17	—	—	393	202	113	—
Chemical technicians	8	—	840	230	28	—	572	168	8	—	178	39	3	—
Science technicians, n.e.c.	6	—	607	239	—	—	443	65	39	25	178	93	90	—
Technicians, except health, engineering, and science	583	217	7 624	2 241	531	84	1 443	434	236	85	1 972	589	305	93
Airplane pilots and navigators	9	—	523	—	17	—	37	—	17	—	98	—	50	—
Air traffic controllers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators	17	—	86	9	—	—	15	—	—	—	16	—	—	—
Computer programmers	163	87	4 179	1 409	248	84	621	254	166	64	1 455	454	183	68
Tool programmers, numerical control	6	—	100	18	—	—	13	—	—	—	51	—	2	—
Legal assistants	18	—	371	245	14	—	36	23	20	12	43	38	5	—
Technicians, n.e.c.	375	106	2 415	560	252	—	721	171	55	9	309	97	65	20
Sales occupations	24 885	5 345	472 113	81 936	29 570	5 462	44 353	8 590	36 160	10 812	139 504	23 823	10 140	1 371
Supervisors and proprietors, sales occupations	633	246	65 269	8 246	1 897	345	3 056	594	3 619	958	21 369	1 990	2 260	159
Salaried	2 413	648	45 738	5 354	1 540	287	2 471	469	2 722	786	15 199	1 304	746	136
Self-employed	1 644	285	19 531	2 892	357	58	585	125	897	172	6 170	686	514	23
Sales representatives, finance and business services	81	40	1 271	293	38	11	93	17	47	13	286	81	39	7
Insurance sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Real estate sales occupations	11	—	405	57	—	—	26	—	20	3	47	11	25	—
Securities and financial services sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Advertising and related sales occupations	70	40	866	236	38	11	67	17	27	10	239	70	14	7
Sales occupations, other business services	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	20 163	4 288	381 391	57 460	26 842	4 632	39 486	6 642	31 605	9 146	106 844	13 406	6 726	908
Sales engineers	198	—	3 225	33	67	—	298	—	36	—	151	7	27	—
Sales representatives, mining, manufacturing, and wholesale	19 965	4 288	378 166	57 427	26 775	4 632	39 188	6 642	31 569	9 146	106 693	13 399	6 699	908
Sales workers, retail and personal services	555	372	22 586	15 297	768	461	1 625	1 258	879	692	10 409	7 921	414	258
Sales workers, commodities	52	—	1 441	152	56	10	72	37	51	—	368	29	53	—
Sales counter clerks	7	—	344	138	17	—	—	—	67	44	81	50	4	—
Cashiers	298	267	15 942	12 763	235	209	751	699	575	528	9 092	7 386	299	236
Street and door-to-door sales workers	176	93	3 635	1 996	396	215	773	503	186	120	796	450	50	13
News vendors	22	—	1 224	248	64	—	21	14	—	—	72	6	8	5
Sales related occupations	29	12	1 596	640	25	13	93	79	10	3	596	425	701	39
Demonstrators, promoters and models, sales	27	12	686	517	7	—	58	58	—	—	526	397	—	—
Auctioneers	2	—	179	44	18	—	—	—	7	—	24	2	—	—
Sales support occupations, n.e.c.	—	—	731	79	—	—	35	21	3	—	46	26	—	—
Administrative support occupations, including clerical	22 780	17 722	406 248	299 742	28 175	20 481	42 101	32 328	32 475	23 095	116 012	80 898	21 400	17 099
Supervisors, administrative support occupations	1 531	818	23 687	9 842	1 537	608	2 511	1 339	2 436	1 064	7 892	2 514	787	364
Supervisors, general office	957	511	13 109	6 717	761	343	1 294	775	1 385	710	3 892	1 710	374	216
Supervisors, computer equipment operators	17	6	956	421	65	27	162	57	70	47	223	80	50	29
Supervisors, financial records processing	257	192	4 119	1 998	295	175	488	228	320	193	1 115	550	193	96
Chief communications operators	—	—	83	14	—	—	13	—	—	—	16	14	25	—
Supervisors; distribution, scheduling, and adjusting clerks	300	109	5 420	692	416	63	554	79	661	114	2 143	160	145	23
Computer equipment operators	593	509	14 437	748	934	748	1 926	1 243	859	659	4 303	2 806	606	440
Computer operators	487	571	13 679	9 594	879	697	1 844	1 191	829	639	4 102	2 678	556	405
Peripheral equipment operators	22	—	758	530	55	51	82	52	30	20	201	128	50	35

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Wholesale trade, durable goods—Con.				Wholesale trade, nondurable goods											
	Miscellaneous wholesale, durable goods		Total		Paper and paper products		Drugs, chemicals, and allied products		Apparel, fabrics, and notions		Groceries and related products		Farm products—raw materials			
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations—Con.																
Administrative support occupations, including clerical—Con.																
Secretaries, stenographers, and typists	4 945	4 860	95 395	94 002	5 802	5 704	11 282	11 184	5 737	5 624	23 591	23 236	4 694	4 662		
Stenographers	4 480	4 414	86 580	85 522	5 054	4 971	10 165	10 085	4 855	4 795	21 876	21 606	4 449	4 417		
Typists	27	27	581	561	49	49	69	69	10	10	83	83	12	12		
Information clerks	438	419	8 234	7 919	699	684	1 048	1 030	872	819	1 632	1 547	233	233		
Hotel clerks	569	540	9 617	8 732	897	822	1 182	1 060	1 070	990	2 208	2 065	279	244		
Travelers	92	84	1 421	1 178	148	132	189	154	121	93	316	289	12	12		
Transportation ticket and reservation agents	5	—	249	100	14	—	33	7	14	14	78	34	33	18		
Receptionists	391	375	6 534	6 361	637	626	763	747	820	798	1 423	1 405	205	197		
Information clerks, n.e.c.	81	81	1 413	1 093	98	64	197	152	115	85	391	337	29	17		
Records processing occupations, except financial	1 887	1 396	25 094	17 391	2 592	1 929	3 719	2 999	2 045	1 544	7 268	4 259	481	308		
Classified-ad clerks	12	—	223	227	14	—	39	45	15	15	115	75	—	—		
Correspondence clerks	25	25	337	273	30	26	2 871	2 261	1 531	1 085	5 942	3 151	—	—		
Order clerks	1 326	926	18 937	12 134	2 004	1 407	2 871	2 261	1 531	1 085	5 942	3 151	270	148		
Personal clerks, except payroll and timekeeping	7	6	483	451	9	3	12	10	41	41	221	205	—	—		
Library clerks	372	311	4 153	3 634	472	436	507	441	353	331	841	708	171	141		
File clerks	139	121	737	585	54	43	125	93	80	72	100	78	40	19		
Financial records processing occupations	5 236	4 796	95 848	85 227	5 479	5 008	6 249	5 599	6 554	5 970	28 950	25 736	8 217	7 284		
Bookkeepers, accounting, and auditing clerks	4 251	3 910	83 928	74 866	4 260	3 867	5 023	4 549	5 293	4 805	24 990	22 374	7 723	6 862		
Payroll and timekeeping clerks	113	113	2 669	2 485	151	151	190	168	150	150	1 225	1 123	121	99		
Billing clerks	558	498	6 490	5 736	779	763	610	547	878	740	1 876	1 597	238	222		
Cost and rate clerks	270	241	2 048	1 523	216	154	385	294	172	158	161	142	38	15		
Billing, posting, and calculating machine operators	44	34	713	617	73	73	62	41	61	54	243	200	97	86		
Duplicating, mail, and other office machine operators	71	51	662	437	64	37	62	40	166	94	139	116	37	21		
Duplicating machine operators	36	22	169	72	20	13	13	—	66	26	26	22	16	—		
Mail preparing and paper handling machine operators	17	11	111	86	12	10	—	—	40	40	29	19	—	—		
Office machine operators, n.e.c.	18	18	382	279	32	14	49	40	60	35	84	75	21	21		
Communications equipment operators	109	96	2 029	1 918	271	271	209	204	161	153	766	693	52	49		
Telephone operators	84	76	1 976	1 886	271	271	209	204	137	129	758	693	49	49		
Telegraphers	25	20	47	32	—	—	—	—	24	24	2	—	3	—		
Communications equipment operators, n.e.c.	—	—	6	—	—	—	—	—	—	—	6	—	—	—		
Mail and message distributing occupations	291	113	4 945	1 695	326	109	614	253	543	214	1 340	413	126	38		
Postal clerks, except mail carriers	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Mail carriers, postal service	199	101	3 577	1 399	269	86	498	210	367	177	930	350	87	32		
Mail clerks, except postal service	92	12	1 368	296	57	23	116	43	176	37	410	63	39	6		
Messengers	3 989	1 546	68 209	19 176	5 091	1 509	7 262	2 706	8 281	3 037	22 844	5 163	2 251	547		
Material recording, scheduling, and distributing clerks	48	16	3 775	593	88	47	221	40	38	—	1 174	147	61	6		
Dispatchers	210	121	4 473	2 209	186	105	447	250	417	272	1 786	868	121	55		
Production coordinators	1 921	514	27 882	4 788	2 979	320	3 189	709	4 605	1 129	8 661	1 918	494	160		
Traffic, shipping, and receiving clerks	1 449	683	22 715	7 471	1 902	754	2 622	1 256	2 217	928	7 624	1 793	390	125		
Stock and inventory clerks	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Meter readers	199	103	6 336	2 226	230	65	452	226	303	205	2 970	1 094	1 099	167		
Weights, measurers, and checkers	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Samplers	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Expeditors	119	66	1 846	1 184	211	156	244	164	289	170	377	237	8	18		
Material recording, scheduling, and distributing clerks, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Adjusters and investigators	43	43	1 077	677	88	62	80	54	412	333	240	106	43	16		
Insurance adjusters, examiners, and investigators	336	198	5 824	3 231	582	341	819	491	601	456	1 126	603	126	40		
Investigators and adjusters, except insurance	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Eligibility clerks, social welfare	269	149	4 469	2 376	481	286	649	388	424	310	853	467	95	30		
Bill and account collectors	67	49	1 275	809	101	55	163	103	177	146	241	119	31	10		
Miscellaneous administrative support occupations	3 223	2 799	60 501	47 967	4 000	3 395	6 266	5 410	4 022	3 353	16 088	13 294	3 744	3 102		
General office clerks	2 407	2 114	43 164	34 293	2 754	2 290	3 827	3 300	2 865	2 403	11 324	9 373	2 898	2 407		
Bank tellers	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Proofreaders	7	7	201	160	56	51	28	20	41	24	5	—	5	5		
Data-entry keyers	435	423	11 438	10 190	843	826	1 805	1 703	613	580	3 462	3 292	515	487		
Statistical clerks	131	84	1 874	1 334	63	42	160	129	193	152	445	274	115	67		
Teachers' aides	—	—	53	34	—	—	—	—	5	5	6	—	9	9		
Administrative support occupations, n.e.c.	243	171	3 771	1 956	284	186	446	258	305	194	846	355	202	127		

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

	Wholesale trade, durable goods—Con.		Wholesale trade, nondurable goods								Farm products—raw materials	
	Miscellaneous wholesale, durable goods		Total		Paper and paper products		Drugs, chemicals, and allied products		Apparel, fabrics, and notions		Groceries and related products	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States												
Employed persons 16 years and over—Con.												
Service occupations	877	208	37 316	9 999	1 067	277	2 161	652	1 535	535	19 726	5 484
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	311	—	3 759	218	102	—	300	44	215	24	1 761	46
Supervisors, protective service occupations	11	—	162	6	5	—	22	6	5	—	85	—
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, guards	11	—	162	6	5	—	22	6	5	—	85	—
Firefighting and fire prevention occupations	70	—	56	—	—	—	16	—	—	—	16	—
Fire inspection and fire prevention occupations	64	—	47	—	—	—	12	—	—	—	11	—
Firefighting occupations	6	—	9	—	—	—	4	—	—	—	5	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—	—	—
Guards	230	—	3 541	212	97	—	262	38	210	24	1 660	46
Crossing guards	6	—	8	—	8	—	—	—	—	—	—	—
Guards and police, except public service	224	—	3 521	205	89	—	262	38	208	24	1 660	46
Protective service occupations, n.e.c.	—	—	12	7	—	—	—	—	2	—	—	—
Service occupations, except protective and household	566	208	33 557	9 781	965	277	1 861	608	1 320	511	17 965	5 438
Food preparation and service occupations	56	38	8 263	4 719	49	33	155	118	57	39	6 670	3 601
Food preparation and service occupations, except household	5	—	1 064	211	2	—	17	8	9	—	170	504
Supervisors, food preparation and service occupations	—	—	137	54	—	—	—	—	—	—	58	36
Barenders	14	—	809	714	—	—	42	42	17	12	439	372
Waiters and waitresses	14	—	2 846	1 552	33	19	32	25	15	8	2 357	1 193
Cooks, except short order	18	—	17	—	—	—	—	—	—	—	14	—
Short-order cooks	—	—	—	—	—	—	—	—	—	—	—	—
Food counter, fountain and related occupations	—	—	432	218	6	6	21	13	10	10	309	144
Kitchen workers, food preparation	—	—	1 227	880	—	—	—	—	—	—	1 166	841
Waiters and waitresses, assistants	—	—	237	109	8	8	17	17	—	—	166	71
Miscellaneous food preparation occupations	5	—	1 494	964	—	—	26	13	6	6	1 223	760
Health service occupations	5	5	367	260	—	—	168	132	27	27	82	39
Dental assistants	—	—	98	63	—	—	56	45	7	7	29	11
Nursing aides, orderlies, and attendants	5	5	269	197	—	—	112	87	20	20	53	28
Cleaning and building service occupations, except household	433	132	23 247	3 911	889	224	1 349	202	881	171	10 981	1 649
Supervisors, cleaning and building service workers	5	—	598	29	12	—	40	6	23	6	303	10
Maid and houseman	24	16	1 800	710	81	38	74	13	66	6	1 013	366
Janitors and cleaners	396	116	19 938	3 159	777	186	1 210	178	736	165	9 567	1 273
Elevator operators	8	—	739	13	19	—	5	5	56	—	58	—
Pest control occupations	—	—	172	—	—	—	20	—	—	—	40	—
Personal service occupations	72	33	1 680	891	27	20	189	156	355	274	232	149
Supervisors, personal service occupations	25	11	294	13	7	—	15	—	29	—	—	—
Barbers	7	—	17	2	—	—	—	—	13	—	2	—
Hairdressers and cosmetologists	—	—	207	180	—	—	142	136	31	24	5	—
Attendants, amusement and recreation facilities	2	—	33	8	12	12	6	—	30	19	23	12
Guides	—	—	—	—	—	—	—	—	5	—	—	—
Ushers	—	—	—	—	—	—	—	—	—	—	—	—
Public transportation attendants	—	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	—	—	—	—	—	—	—	—	—
Welfare service aides	7	—	393	169	—	—	—	—	—	—	—	—
Child care workers, except private household	—	—	627	464	8	8	14	8	—	—	28	15
Personal service occupations, n.e.c.	31	22	—	—	—	—	12	12	247	231	176	120
Farming, forestry, and fishing occupations	195	19	6 456	2 000	60	—	79	11	2	—	1 129	185
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	—	—	1 728	1 018	—	—	—	—	—	—	—	—
Related agricultural occupations	12	4	3 469	890	27	—	60	11	—	—	304	66
Supervisors, related agricultural occupations	—	—	75	8	—	—	—	—	—	—	12	—
Grain and related products, except farm	—	—	2 100	685	27	—	24	—	—	—	208	28
Animal caretakers, except farm	12	4	—	—	—	—	—	—	—	—	—	—
Animal caretakers, except farm, related products	—	—	1 282	137	—	—	30	11	—	—	82	38
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	12	—	—	—	6	—	—	—	2	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Wholesale trade, durable goods—Con.		Wholesale trade, nondurable goods				Paper and paper products		Drugs, chemicals, and allied products		Apparel, fabrics, and notions		Groceries and related products		Form products—raw materials	
Miscellaneous wholesale, durable goods		Total		Total		Total		Total		Total		Total		Total	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
177	15	386	35	5 078	604	—	—	12	—	2	—	19	15	8	4
11	—	13	—	1 595	53	—	—	6	—	—	—	—	—	—	—
7	—	80	—	35	—	—	—	6	—	2	—	4	—	3	—
159	15	293	27	1 616	49	—	—	6	—	—	—	15	15	3	—
6	—	873	117	34 454	702	—	—	7	—	—	—	806	104	14	4
—	—	121	5	11 656	56	—	—	—	—	—	—	121	5	—	—
—	—	739	107	7 197	29	—	—	7	—	—	—	678	94	14	—
6	—	13	5	2 111	—	—	—	—	—	—	—	—	—	—	—
7 920	1 561	147 724	17 507	5 078	604	—	—	7 332	896	7 853	3 907	74 301	7 983	6 232	289
2 594	330	36 070	751	1 595	53	—	—	1 676	60	583	90	14 120	195	1 962	2
94	25	1 616	49	35	—	—	—	95	—	34	—	13 425	16	96	—
2 500	305	34 454	702	1 560	47	—	—	1 581	60	549	90	13 495	179	1 863	2
118	—	11 656	56	77	—	—	—	300	9	72	4	5 061	8	628	—
52	—	7 197	29	74	—	—	—	145	—	30	2	3 256	5	329	—
19	—	2 111	—	—	—	—	—	42	—	12	—	1 044	—	114	—
7	—	163	—	5	—	—	—	16	—	—	—	—	—	14	—
—	—	343	—	—	—	—	—	15	9	2	2	36	—	15	—
—	—	25	—	—	—	—	—	63	—	10	—	508	—	31	—
30	—	846	1	15	—	—	—	19	—	18	—	129	—	129	—
10	—	858	6	22	—	—	—	—	—	—	—	—	—	—	—
145	—	6 722	155	534	13	—	—	422	—	154	36	3 166	52	320	—
11	—	969	43	5	—	—	—	11	—	13	—	180	8	49	—
184	25	1 226	100	83	6	—	—	85	21	82	6	315	14	55	—
45	7	261	9	35	—	—	—	14	—	16	—	—	—	2	—
44	6	189	34	25	6	—	—	29	8	5	—	40	8	19	—
43	—	372	20	5	—	—	—	12	7	32	—	105	6	—	—
6	—	14	—	—	—	—	—	7	—	—	—	—	—	—	—
34	6	151	30	10	—	—	—	22	6	29	6	4	—	23	—
12	6	209	—	8	—	—	—	—	—	—	—	89	—	11	—
—	—	2 817	9	17	—	—	—	29	—	16	—	801	—	41	—
2 042	280	11 064	339	805	28	—	—	734	30	212	44	3 972	97	770	2
574	136	99	8	4	—	—	—	27	—	—	—	—	—	—	—
12	—	21	—	—	—	—	—	—	—	—	—	2	—	—	—
19	—	462	23	302	6	—	—	15	—	—	—	82	15	16	—
15	8	167	16	16	—	—	—	13	—	5	—	19	19	—	—
6	—	212	9	6	—	—	—	7	7	5	—	54	—	91	—
46	9	1 008	44	18	—	—	—	74	7	37	—	176	—	262	2
1 210	118	3 826	170	167	14	—	—	152	6	112	30	57	57	153	—
160	9	5 269	85	292	8	—	—	446	10	53	9	2 048	25	248	—
378	32	7 499	307	357	21	—	—	667	12	295	39	1 924	80	440	14
14	—	802	18	59	—	—	—	63	—	14	—	179	5	47	7
—	—	—	—	—	—	—	—	7	—	—	—	—	—	—	—
—	—	27	—	—	—	—	—	—	—	—	—	6	—	6	—
—	—	101	10	13	—	—	—	—	—	—	—	36	5	—	—
—	—	29	—	—	—	—	—	—	—	14	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	645	8	46	1	—	—	56	—	—	—	137	—	41	7
364	32	6 697	289	298	20	—	—	604	12	281	39	1 745	75	393	7
—	—	95	6	—	—	—	—	7	—	6	—	6	6	—	—
—	—	37	—	—	—	—	—	—	—	2	—	8	—	6	—
35	—	1 823	84	112	11	—	—	125	—	121	14	526	30	197	2
158	25	21	—	—	—	—	—	—	—	6	—	5	—	—	—
60	—	1 655	38	126	—	—	—	122	—	49	—	670	10	92	—
—	—	26	—	—	—	—	—	2	—	—	—	4	—	—	—
13	7	1 244	141	25	9	—	—	113	12	47	25	237	15	44	5
—	—	60	2	—	—	—	—	—	—	—	—	18	—	—	—

Employed persons 16 years and over—Con.

Farming, forestry, and fishing occupations—Con.
 Forestry and logging occupations—Con.
 Supervisors, forestry and logging workers—
 Forestry workers, except logging
 Timber cutting and logging occupations—
 Fishers, hunters, and trappers
 Captains and other officers, fishing vessels
 Fishers—
 Hunters and trappers
 Precision production, craft, and repair occupations
 Mechanics and repairers
 Supervisors, mechanics and repairers
 Mechanics and repairers, except supervisors
 Vehicle and mobile equipment mechanics and repairers
 Automobile mechanics
 Bus, truck, and stationary engine mechanics
 Aircraft engine mechanics
 Small engine repairers
 Automobile body and related repairers
 Aircraft mechanics, except engine
 Heavy equipment mechanics
 Farm equipment mechanics
 Industrial machinery repairers
 Machinery maintenance occupations
 Electrical and electronic equipment repairers
 Electronic repairers, communications and industrial equipment
 Data processing equipment repairers
 Household appliance and power tool repairers
 Telephone line installers and repairers
 Telephone installers and repairers
 Miscellaneous electrical and electronic equipment repairers
 Heating, air conditioning, and refrigeration mechanics
 Miscellaneous mechanics and repairers
 Camera, watch, and musical instrument repairers
 Locksmiths and safe repairers
 Office machine repairers
 Mechanical controls and valve repairers
 Elevator installers and repairers
 Millwrights
 Specified mechanics and repairers, n.e.c.
 Not specified mechanics and repairers
 Construction trades—
 Supervisors, construction occupations
 Supervisors, brickmasons, stonemasons, and tile setters
 Supervisors, carpenters and related workers
 Supervisors, electricians and power transmission installers
 Supervisors, painters, paperhangers, and plasterers
 Supervisors, plumbers, pipefitters, and steamfitters
 Supervisors, n.e.c.
 Construction trades, except supervisors
 Brickmasons and stonemasons
 Tile setters, hard and soft
 Carpet installers
 Carpenters
 Drywall installers
 Electricians
 Electrical power installers and repairers
 Painters, construction and maintenance
 Paperhangers

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

Wholesale trade, durable goods—Con.		Wholesale trade, nondurable goods											
Miscellaneous wholesale, durable goods		Total		Paper and paper products		Drugs, chemicals, and allied products		Apparel, fabrics, and notions		Groceries and related products		Farm products—raw materials	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
54	1	157	16	21	—	171	—	13	—	209	12	37	—
—	—	4	—	—	—	—	—	—	—	—	—	4	—
2	—	73	—	14	—	46	—	—	—	24	—	—	—
—	—	135	—	—	—	—	—	4	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	8	—	—	—
—	—	8	—	—	—	—	—	—	—	—	—	—	—
—	—	26	—	—	—	—	—	—	—	—	—	—	—
8	—	49	—	—	—	—	—	—	—	—	—	3	—
—	—	245	2	—	—	18	—	37	—	20	2	2	—
34	—	493	22	—	—	56	—	—	—	55	17	8	—
—	—	124	17	—	—	—	—	—	—	41	17	—	—
—	—	92	—	—	—	—	—	—	—	3	—	—	—
—	—	61	—	—	—	38	—	—	—	—	—	—	—
—	—	19	—	—	—	6	—	—	—	—	—	—	—
—	—	117	5	—	—	12	—	—	—	11	—	—	—
4 948	1 199	103 732	16 427	3 126	530	4 933	824	6 975	3 778	58 202	7 691	3 830	273
1 945	450	63 130	7 316	2 569	356	4 167	689	3 253	974	27 642	2 573	3 191	192
2 752	636	3 018	345	326	36	196	8	272	124	877	95	96	—
8	—	189	5	39	—	13	—	6	—	63	—	—	—
—	5	20	—	—	—	—	—	7	—	—	—	—	—
74	—	2 059	138	215	—	125	8	129	27	711	69	39	—
—	—	137	—	—	—	25	—	—	—	13	—	—	—
3	—	33	8	2	2	7	—	6	6	—	—	4	—
—	—	93	74	1	—	—	—	82	68	6	6	10	—
—	—	50	19	—	—	—	—	14	8	11	11	—	—
—	—	15	24	15	9	—	—	18	6	30	—	—	—
2 480	561	90	24	—	—	10	—	2	2	9	9	—	—
176	64	150	70	54	25	16	—	8	8	22	12	43	—
6	—	185	—	—	—	—	—	—	—	—	—	—	—
—	—	12	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
35	6	170	20	22	—	15	—	28	—	41	7	—	—
15	6	8	—	—	—	8	—	—	—	—	—	—	—
20	—	79	15	7	—	7	—	—	—	32	7	—	—
—	—	70	5	8	—	—	—	22	—	9	—	—	—
—	—	13	—	7	—	—	—	6	—	—	—	—	—
90	77	4 352	3 343	53	39	48	48	3 313	2 654	193	59	84	24
65	65	3 380	3 037	45	37	30	30	2 634	2 456	109	36	24	24
78	—	112	112	—	—	—	—	290	102	—	—	—	—
—	—	300	23	—	—	—	—	175	23	10	—	—	—
—	—	216	55	—	—	—	—	167	53	2	—	—	—
5	5	182	70	8	2	18	18	17	7	52	18	—	—
7	7	131	46	—	—	—	—	30	13	20	5	60	—
—	—	143	—	—	—	—	—	—	—	—	—	—	—
73	21	565	199	114	84	69	27	21	13	87	8	13	—
21	—	10	5	5	5	5	—	—	—	—	—	—	—
11	4	44	14	30	6	—	—	14	8	—	—	—	—
—	—	66	2	—	—	14	—	—	—	11	—	—	—
3	—	20	5	—	—	9	2	2	—	6	—	13	—
26	10	162	121	73	67	20	20	5	5	42	8	—	—
7	7	89	41	—	—	—	—	—	—	—	—	—	—
5	—	174	11	6	6	16	—	—	—	22	—	—	—
19	9	29 587	5 095	5	—	36	13	50	13	28 836	4 936	351	57
19	9	24 346	3 541	5	—	23	6	26	6	23 707	3 442	327	40
—	—	4 446	1 196	—	—	13	7	5	7	4 384	1 155	12	12
—	—	—	358	—	—	—	—	19	—	745	339	12	5
8	—	130	30	8	8	7	—	—	—	20	—	4	—
8	—	130	30	8	8	7	—	—	—	20	—	4	—
8	—	—	—	—	—	—	—	—	—	—	—	—	—

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con

Construction trades, except supervisors—Con.

Plasterers.....

Plumbers, pipefitters, and steamfitters.....

Concrete and terrazzo finishers.....

Glaziers.....

Insulation workers.....

Paving, surfacing, and tamping equipment operators.....

Railers.....

Sheetmetal duct installers.....

Structural metal workers.....

Welders.....

Construction trades, n.e.c.....

Extractions.....

Supervisors, extractive occupations.....

Oil well.....

Explosives workers.....

Mining machine operators.....

Mining occupations, n.e.c.....

Precision production occupations.....

Supervisors, production occupations.....

Precision metalworking occupations.....

Tool and die makers.....

Precision assemblers, metal.....

Machinists.....

Boilermakers.....

Precision grinders.....

Patternmakers and model makers, metal.....

Lay-out workers.....

Precious stones and metals workers (jewelers).....

Engravers, metal.....

Sheet metal workers.....

Miscellaneous precision metal workers.....

Precision woodworking occupations.....

Patternmakers and model makers, wood.....

Cabinet makers and bench carpenters.....

Furniture and wood finishers.....

Miscellaneous precision woodworkers.....

Precision textile, apparel, and furnishings machine workers.....

Dressmakers.....

Tailors.....

Upholsterers.....

Shoe repairers.....

Apparel and fabric patternmakers.....

Miscellaneous precision apparel and fabric workers.....

Precision workers, assorted materials.....

Hand molders and shapers, except jewelers.....

Patternmakers, lay-out workers, and others.....

Optical goods workers.....

Dental laboratory and medical appliance technicians.....

Bookbinders.....

Electrical and electronic equipment assemblers.....

Miscellaneous precision workers, n.e.c.....

Precision food production occupations.....

Butchers and meat cutters.....

Bakers.....

Food batchmakers.....

Precision inspectors, testers, and related workers.....

Inspectors, testers, and graders.....

Adjusters and calibrators.....

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Construction trades—Con.

Construction trades, except supervisors—Con.

Plasterers	Plumbers, pipelayers, and steamfitters	Concrete and terrazzo finishers	Gazers	Insulation workers	Paving, surfacing, and tamping equipment operators	Roofers	Sheetmetal duct installers	Structural metal workers	Drillers, earth	Construction trades, n.e.c.	Extrusive occupations	Supervisors, extractive occupations	Drillers, oil well	Explosives workers	Mining machine operators	Mining occupations, n.e.c.	Precision production occupations	Supervisors, production occupations	Precision metalworking occupations	Tool and die makers	Precision assemblers, metal	Machinists	Boilermakers	Precision grinders, filers, and tool sharpeners	Patternmakers and model makers, metal	Lay-out workers	Precious stones and metals workers (jewelers)	Engravers, metal	Sheet metal workers	Miscellaneous precision metal workers	Precision woodworking occupations	Patternmakers and model makers, wood	Cabinet makers and bench carpenters	Furniture and wood finishers	Miscellaneous precision woodworkers	Precision textile, apparel, and furnishings machine workers	Dressmakers	Tailors	Upholsterers	Shoe repairers	Apparel and fabric patternmakers	Miscellaneous precision apparel and fabric workers	Precision workers, assorted materials	Hand molders and shapers, except jewelers	Patternmakers, lay-out workers, and cutters	Optical goods workers	Dental laboratory and medical appliances technicians	Bookbinders	Electrical and electronic equipment assemblers	Miscellaneous precision workers, n.e.c.	Precision food production occupations	Butchers and meat cutters	Bakers	Food batchmakers	Precision inspectors, testers, and related workers	Inspectors, testers, and graders	Adjusters and calibrators
------------	--	---------------------------------	--------	--------------------	--	---------	----------------------------	--------------------------	-----------------	-----------------------------	-----------------------	-------------------------------------	--------------------	--------------------	--------------------------	----------------------------	----------------------------------	-------------------------------------	------------------------------------	---------------------	-----------------------------	------------	--------------	---	---------------------------------------	-----------------	---	------------------	---------------------	---------------------------------------	-----------------------------------	--------------------------------------	-------------------------------------	------------------------------	-------------------------------------	---	-------------	---------	--------------	----------------	----------------------------------	--	---------------------------------------	---	---	-----------------------	--	-------------	--	---	---------------------------------------	---------------------------	--------	------------------	--	----------------------------------	---------------------------

Employed Persons by Detailed Industry and Sex: 1980—Con.

United States

Wholesale trade, durable goods—Con	Wholesale trade, nondurable goods									
Miscellaneous wholesale, durable goods	Total		Paper and paper products		Drugs, chemicals, and allied products		Apparel, fabrics, and notions		Groceries and related products	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.	Precision production, craft, and repair occupations—Con									
	Precision production occupations—Con									
	26	—	29	7	395	39	38	—	506	13
	—	—	9	—	—	—	2	—	9	—
	—	—	7	7	15	—	—	—	—	—
	10	—	13	—	181	28	36	—	465	13
	16	—	—	—	194	11	—	—	32	—
	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—
	10 660	3 819	23 304	4 057	28 720	7 443	19 356	9 994	296 770	49 593
Employed persons 16 years and over—Con.	3 578	1 613	5 340	1 668	5 361	1 968	8 648	5 830	45 111	22 793
	1 996	679	4 377	1 134	3 806	1 159	6 519	4 191	19 689	7 233
	330	77	85	41	46	15	75	—	299	61
	—	—	—	—	—	—	—	—	5	—
	17	—	23	—	4	4	5	—	22	—
	—	—	—	—	—	—	—	—	—	—
	18	13	21	7	5	—	8	8	9	—
	—	—	—	—	—	—	—	—	52	21
	7	—	28	26	—	—	—	—	4	—
	—	—	—	—	—	—	—	—	—	—
Employed persons 16 years and over—Con.	288	64	741	84	32	6	34	6	174	40
	—	—	29	8	—	—	—	—	9	—
	—	—	4	—	—	—	—	—	—	—
	—	—	—	—	5	5	—	—	24	—
	—	—	—	—	—	—	—	—	—	—
	22	—	7	—	—	—	—	—	—	—
	107	10	136	51	53	16	114	65	130	43
	77	10	116	31	38	7	91	65	112	31
	30	—	15	15	9	9	6	—	12	12
	—	—	26	5	6	—	—	—	6	—
Employed persons 16 years and over—Con.	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	17	—	—	—
	147	—	5	—	29	—	27	6	104	57
	5	—	—	—	—	—	—	—	—	—
	106	—	5	—	13	—	17	—	71	36
	—	—	—	—	—	—	6	6	27	21
	—	—	—	—	—	—	—	—	—	—
	36	—	—	—	16	—	4	—	6	—
	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—
Employed persons 16 years and over—Con.	71	16	598	137	168	62	251	103	571	211
	52	4	480	82	139	39	245	103	518	180
	—	—	21	5	—	—	—	—	6	6
	13	6	56	34	23	23	—	—	12	12
	6	6	41	16	6	6	—	—	35	13
	34	34	65	46	40	29	2 108	1 580	283	114
	—	—	16	7	—	—	67	32	7	5
	—	—	—	—	—	—	—	—	—	—
	—	—	3	3	—	—	75	31	7	7
	—	—	—	—	—	—	—	—	92	19
Employed persons 16 years and over—Con.	29	29	21	21	31	25	1 408	1 230	71	40
	—	—	—	—	—	—	77	46	9	—
	—	—	8	8	4	4	290	131	—	—
	—	—	8	8	—	—	60	34	31	25
	5	5	9	7	5	—	130	76	66	18
	—	—	—	—	—	—	—	—	—	—
	1 285	542	3 481	859	3 470	1 037	3 922	2 401	18 302	6 747
	38	18	50	43	7	31	31	24	58	24
	44	34	58	56	545	290	128	91	2 278	965
	—	—	—	—	—	—	—	—	67	10
Employed persons 16 years and over—Con.	—	—	5	—	384	37	139	16	883	143
	27	8	21	—	280	12	73	42	272	42
	3	—	102	19	6	—	27	108	230	216
	15	—	40	19	101	51	56	11	158	21
	35	6	—	—	—	—	—	—	179	10
	—	—	—	—	—	—	—	—	151	4
	—	—	—	—	—	—	18	—	173	111
	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States													
Wholesale trade, durable goods—Con.		Wholesale trade, nondurable goods											
Miscellaneous wholesale, durable goods		Total		Paper and paper products		Drugs, chemicals, and allied products		Apparel, fabrics, and notions		Groceries and related products		Farm products—raw materials	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
5	5	633	293	82	13	6	6	57	37	387	203	41	7
2	—	858	60	32	—	112	12	35	17	273	18	64	—
15	—	2 223	131	7	7	11	—	—	—	588	74	518	23
236	91	4 186	1 620	954	60	112	23	862	448	1 268	775	56	18
—	—	16	9	—	—	—	—	9	9	—	—	—	—
10	—	312	150	57	42	73	7	21	21	62	40	5	5
136	136	9 216	3 194	685	195	551	199	780	532	3 202	1 186	857	106
313	234	18 991	6 589	1 388	405	1 274	451	1 706	1 103	8 224	3 033	1 173	163
542	—	—	—	—	—	—	—	—	—	—	—	—	—
1 104	640	11 430	4 674	572	321	1 076	527	485	314	4 068	1 706	589	50
92	—	2 789	80	66	9	251	—	34	—	609	14	379	—
61	30	18	6	—	—	6	6	—	—	—	—	—	—
562	794	7 208	4 040	481	308	781	505	423	305	2 558	1 302	136	46
—	—	766	300	—	—	—	8	13	—	681	290	42	—
29	—	140	69	2	2	12	—	—	—	10	5	5	—
50	15	206	32	9	—	10	—	6	—	55	5	7	4
7	7	4	—	—	—	—	—	—	—	4	—	—	—
56	18	11	—	—	—	—	—	—	—	—	—	—	—
8	8	288	147	14	2	8	8	9	9	151	90	14	—
478	294	27 844	17 574	391	213	479	282	1 644	1 325	21 354	13 854	1 726	594
139	139	5 826	2 311	282	168	208	122	679	549	3 067	803	502	87
202	8	173	44	13	7	35	8	—	—	46	22	8	—
13	4	412	246	9	9	15	9	228	185	14	6	114	29
259	143	21 433	14 973	87	29	221	143	737	591	18 227	13 023	1 102	478
2 535	210	305 946	6 067	9 611	232	10 853	399	2 501	428	156 701	2 877	9 810	114
1 934	22	275 733	5 043	7 905	143	9 140	266	1 836	304	139 346	2 448	8 765	94
40	—	3 984	60	7	—	59	—	13	—	2 852	39	7	—
1 093	—	123 949	1 567	4 150	44	4 607	36	636	7	47 894	811	7 003	73
626	22	85 751	2 045	3 449	82	3 694	191	814	112	43 157	793	1 453	8
162	—	59 082	1 259	187	17	573	31	328	178	44 160	777	233	7
—	—	242	34	—	—	—	—	—	—	124	13	—	—
13	—	2 577	78	112	—	193	8	45	—	1 065	15	81	9
—	—	142	—	—	—	8	—	—	—	94	—	4	—
—	—	6	—	—	—	6	—	—	—	—	—	—	—
—	—	132	13	8	—	13	6	—	—	21	—	46	—
—	—	22	7	8	—	—	—	—	—	6	—	—	—
—	—	76	6	—	—	13	6	—	—	15	—	23	—
—	—	34	—	—	—	—	—	—	—	—	—	23	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	744	21	3	—	13	—	6	—	75	10	37	5
—	—	266	—	—	—	5	—	—	—	36	—	7	—
—	—	380	21	3	—	8	—	6	—	22	10	15	5
—	—	98	—	—	—	8	—	—	—	17	—	15	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
601	188	29 337	990	1 695	89	1 687	127	659	124	17 259	419	962	15
223	165	781	28	97	—	78	7	15	7	312	2	32	—
24	—	218	14	7	—	14	—	—	—	89	7	13	—
—	—	20	—	—	—	—	—	—	—	11	—	—	—
—	—	70	—	—	—	3	—	—	—	19	—	26	—
19	—	398	8	4	—	5	—	18	—	119	1	21	—
10	5	150	4	—	—	13	—	43	—	10	—	9	—
25	—	69	—	—	—	3	—	—	—	15	—	283	7
239	7	24 809	532	1 451	81	1 290	63	446	13	15 899	283	470	13
61	11	2 822	404	130	8	281	57	180	104	757	126	365	13

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.	
Machine operators, assemblers, and inspectors—Con.	
Machine operators and tenders, except precision—Con.	
Machine operators, assorted materials—Con.	
Folding machine operators	
Furnace, kiln, and oven operators, except food	
Crushing and grinding machine operators	
Slicing and cutting machine operators	
Motion picture projectionists	
Photographic process machine operators	
Miscellaneous machine operators, n.e.c.	
Machine operators, not specified	
Welders, assemblers, and hand working occupations	
Welders and cutters	
Solders and brazers	
Assemblers	
Hand cutting and trimming occupations	
Hand molding, casting, and forming occupations	
Hand painting, coating and decorating occupations	
Hand engraving and printing occupations	
Hand grinding and polishing occupations	
Miscellaneous hand working occupations	
Production inspectors, testers, samplers, and weighers	
Production inspectors, checkers, and examiners	
Production testers	
Production samplers and weighers	
Graders and sorters, except agricultural	
Transportation and material moving occupations	
Motor vehicle operators	
Supervisors, motor vehicle operators	
Truck drivers, heavy	
Truck drivers, light	
Driver-sales workers	
Bus drivers	
Taxi drivers and chauffeurs	
Packing lot attendants	
Motor transportation occupations, n.e.c.	
Rail transportation occupations	
Railroad conductors and yardmasters	
Locomotive operating occupations	
Railroad brake, signal, and switch operators	
Rail vehicle operators, n.e.c.	
Water transportation occupations	
Ship captains and mates, except fishing boats	
Sailors and deckhands	
Marine engineers	
Bridge, lock, and lighthouse tenders	
Material moving equipment operators	
Supervisors, material moving equipment operators	
Operating engineers	
Longshore equipment operators	
Hoist and winch operators	
Crane and tower operators	
Excavating and loading machine operators	
Grader, dozer, and scraper operators	
Industrial truck and tractor equipment operators	
Miscellaneous material moving equipment operators	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States

Wholesale trade, durable goods—Con.		Wholesale trade, nondurable goods											
Miscellaneous wholesale, durable goods		Total		Paper and paper products		Drugs, chemicals, and allied products		Apparel, fabrics, and notions		Groceries and related products		Farm products—raw materials	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
4 547	1 996	187 421	45 912	8 353	2 157	12 506	5 076	8 207	3 736	94 958	23 923	10 852	651
—	—	225	14	16	—	6	—	8	—	115	—	10	—
5	—	259	8	5	—	3	3	—	—	108	5	23	—
29	—	140	9	14	—	13	9	6	—	18	—	7	—
29	—	135	9	14	—	13	9	3	—	18	—	7	—
—	—	5	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
15	7	713	38	14	—	40	—	20	13	202	6	68	2
12	7	1 659	321	66	—	74	31	47	16	914	227	94	12
525	114	51 569	3 860	1 297	155	1 956	400	1 456	456	28 247	1 912	4 519	122
—	—	94	8	—	—	—	—	—	—	21	—	11	—
—	—	186	6	—	—	8	—	5	—	52	6	24	—
223	73	12 664	2 393	465	116	788	327	609	224	7 076	1 140	359	22
23	17	1 505	644	38	19	45	23	191	163	813	365	204	31
279	24	37 120	809	794	20	1 115	50	651	69	20 285	401	3 921	61
—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	—	1 631	182	—	—	18	—	—	—	271	25	193	8
22	13	1 773	214	17	—	43	5	25	—	1 248	141	31	—
1 336	821	36 142	22 133	1 676	915	2 640	1 657	2 583	1 436	22 480	14 640	439	137
2 597	1 034	93 310	19 133	5 248	1 087	7 707	2 967	4 062	1 815	41 355	6 967	5 468	370

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors; handlers, equipment cleaners, and laborers,
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stevedores
 Stock handlers and bidders
 Machine feeders and operators
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Wholesale trade, nondurable goods—Con.												Retail trade		
Petroleum products			Alcoholic beverages		Farm supplies		Miscellaneous wholesale, nondurable goods		Not specified wholesale trade		Total		Lumber and building material retailing	
Total	Female		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over														
Managerial and professional specialty occupations														
38 249	5 864		18 025	2 376	20 926	2 188	31 819	8 839	38 386	8 820	1 951 858	726 777	54 069	9 135
32 484	4 910		16 932	2 225	19 794	1 988	26 574	5 877	36 476	8 298	1 633 757	577 870	50 945	7 239
Legislators, chief executives, and general administrators; public administration														
Administrators and officials, public administration														
Federal														
State														
Local														
Administrative, protective services														
1 569	288	8	662	202	481	105	1 021	337	1 131	349	98	30	2 039	664
629	99	71	223	71	392	26	356	79	397	144	31 490	12 503	899	73
Personnel and labor relations managers														
235	35	15	83	15	67	6	161	33	126	10	18 168	5 440	596	82
3 322	89	152	4 726	152	3 297	125	4 617	609	6 543	823	186 506	55 172	7 779	666
32	6		6				29		57	20	823	258	7	
Managers, education and related fields														
Managers, medicine and health														
185							19		6	6	1 784	281	92	7
Managers, properties and real estate														
Postmasters and mail superintendents														
Funeral directors														
19 363	2 253		9 756	1 356	13 559	1 175	16 493	3 535	23 597	5 426	1 155 130	381 669	16	4 002
18 160	2 136		9 319	1 323	11 978	999	14 965	3 108	20 797	4 707	946 593	307 068	30 298	3 623
1 203	117		437	33	1 581	176	1 528	427	2 800	719	208 537	74 601	2 379	3 623
Self-employed														
Management-related occupations														
7 149	2 140		1 468	421	1 996	549	3 873	1 284	4 611	1 520	200 482	105 184	6 550	1 745
4 448	1 531		772	263	889	299	1 302	572	1 568	654	50 603	26 670	2 097	945
Accountants and auditors														
Underwriters														
401	125		57	8	70	27	64	28	153	48	3 277	1 281	128	54
Other financial officers														
309	21		27	13	104	20	133	53	271	59	3 092	1 342	93	25
865	205		177	16	314	55	338	86	303	107	29 113	15 181	775	137
Personnel, training, and labor relations specialists														
Purchasing agents and buyers, farm products														
Buyers, wholesale and retail trade except farm products														
992	202		376	101	579	128	1 952	522	2 224	616	111 530	59 615	3 368	565
Purchasing agents and buyers, n.e.c.														
13			28	14	11	11	75	23	12		919	401	38	7
10					9	9					165	37	6	
25			12		12		9		20	5	806	272	33	
86	56		19	6	8				60	31	525	281	12	12
Management-related occupations, n.e.c.														
Professional specialty occupations														
5 765	954		1 093	151	1 132	200	5 245	2 962	1 910	522	318 101	148 907	3 124	1 896
2 129	88		82	15	207	15	174	31	490	43	8 250	824	327	22
23	5				5		11	11	6		1 552	254	72	5
2 101	83		82		202	15	163	20	484	43	6 658	567	253	17
Aerospace engineers														
20							6		9		54	6		
Metallurgical and materials engineers														
5					5		4	4			40		19	
18											46			
Mining engineers														
567	17										139	10	6	
Petroleum engineers														
234	15				23		13		8		110	7	10	
Chemical engineers														
Nuclear engineers														
233					8		9		23	5	736	40	77	6
Civil engineers														
Agricultural engineers														
Electrical and electronic engineers														
128	8		27		10		20		28		971	53	12	
161	15		31		66	9	54	16	75	13	1 329	276	28	2
129			6		43		25		70		925	11	18	9
63	5										54			
Marine engineers and naval architects														
543	23		18		31	6	32		264	25	2 210	164	78	
5											40	3	2	
Engineers, n.e.c.														
Surveyors and mapping scientists														
956	277		62	7	63	23	232	38	105	23	7 932	2 419	75	17
504	160		44	7	61	23	140	38	55	7	5 336	1 412	53	17
359	60		14				87		46	12	1 893	484	11	
Operations and systems researchers and analysts														
Actuaries														
											18	12		
87	51		4		2		5		4	4	667	511	4	7
Statisticians														
Mathematical scientists, n.e.c.														

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

United States

	Wholesale trade, nondurable goods—Con										Retail trade																	
	Petroleum products				Alcoholic beverages				Farm supplies				Miscellaneous wholesale, nondurable goods				Not specified wholesale trade				Total				Lumber and building material retailing			
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.																												
Managerial and professional specialty occupations—Con.																												
Professional specialty occupations—Con.																												
Natural scientists	882	170																										
Physicists and astronomers	229	36																										
Chemists, except biochemists	606	134																										
Aerospace and aerospace engineers	31																											
Geological engineers	6																											
Physical scientists, n.e.c.	8																											
Agricultural and food scientists	17																											
Biological and life scientists	9																											
Forestry and conservation scientists	8																											
Medical scientists																												
Health diagnosing occupations																												
Physicians	8																											
Dentists	9																											
Veterinarians																												
Optometrists																												
Podiatrists																												
Health assessing practitioners, n.e.c.																												
Registered nurses	55	46																										
Pharmacists	15	8																										
Dietitians																												
Therapists	4	2																										
Physicians' assistants																												
Teachers, postsecondary	14	6																										
Teachers, except postsecondary	34	13																										
Teachers, elementary and kindergarten																												
Teachers, elementary and secondary school																												
Teachers, special education																												
Teachers, n.e.c.	34	13																										
Counselors, educational and vocational	8	8																										
Librarians, archivists, and curators	49	35																										
Librarians	42	35																										
Archivists and curators	7																											
Social scientists and urban planners	657	101																										
Economists	657	101																										
Psychologists																												
Sociologists																												
Social scientists, n.e.c.																												
Urban planners																												
Social, recreation, and religious workers	22	10																										
Social workers	17	5																										
Recreation workers	5	5																										
Clergy																												
Religious workers, n.e.c.																												
Lawyers and judges	398	13																										
Lawyers	398	13																										
Judges																												
Writers, artists, entertainers, and athletes	544	187																										
Authors																												
Technical writers	26	13																										
Designers	124	43																										
Musicians and composers	5																											
Actors and directors																												
Painters, sculptors, craft-artists, and artist printmakers	48	12																										
Photographers																												
Dancers																												
Artists, performers, and related workers, n.e.c.	13																											
Editors and reporters	37																											
Public relations specialists	268	82																										
Announcers																												
Athletes	7																											

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Wholesale trade, nondurable goods—Con.										Retail trade	
Petroleum products		Alcoholic beverages		Farm supplies		Miscellaneous wholesale, nondurable goods		Not specified wholesale trade		Total	Lumber and building material retailing
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.											
66 023	34 939	47 131	15 950	55 659	22 357	83 018	40 174	132 659	45 852	7 351 446	4 662 886
2 905	599	357	107	1 078	356	1 064	378	615	113	38 242	14 062
54	—	9	—	13	8	24	16	6	6	2 374	1 631
14	—	—	—	3	3	—	—	—	—	214	87
—	—	—	—	—	—	—	—	—	—	30	20
—	—	—	—	—	—	—	—	—	—	45	35
—	—	9	—	—	—	7	7	—	—	40	35
—	—	—	—	5	5	8	—	6	6	321	289
40	—	—	—	—	—	9	9	—	—	1 714	1 175
1 052	151	128	20	227	64	279	98	324	24	10 495	1 787
172	—	25	15	25	15	84	5	109	5	5 206	509
—	—	18	7	7	—	—	—	21	—	333	32
11	—	9	—	2	—	10	—	—	—	136	13
480	70	38	13	146	48	128	74	75	18	1 595	415
330	81	38	—	46	8	40	8	103	6	3 045	762
59	—	—	—	1	1	17	11	16	—	180	56
191	20	15	2	353	146	179	38	50	24	1 211	556
—	4	—	—	296	119	110	31	19	12	310	129
6	—	8	2	22	7	45	2	302	138	52	5
93	12	3	—	35	20	24	5	31	12	599	289
92	8	205	85	485	138	582	226	235	59	24 162	10 088
1 608	428	14	—	27	—	27	—	5	—	716	24
231	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
37	4	—	—	—	—	11	5	7	—	571	118
728	228	146	65	219	62	278	100	85	30	10 052	3 374
18	6	—	—	6	6	8	—	2	—	307	74
193	119	11	11	9	2	34	29	6	6	5 763	5 091
401	71	34	9	224	68	224	92	130	23	6 753	1 407
19 103	1 570	28 946	2 109	32 187	4 749	40 173	8 630	91 977	14 820	5 779 929	3 448 133
5 883	318	3 529	235	8 129	856	7 068	1 221	8 459	1 570	1 242 920	385 683
4 197	243	3 017	175	5 231	431	4 612	728	5 003	795	859 138	269 314
1 686	75	512	60	2 898	425	2 456	493	3 456	775	383 782	116 369
233	23	88	—	43	21	258	86	146	34	7 795	4 076
—	—	—	—	—	—	—	—	—	—	—	—
197	16	10	—	12	12	7	—	61	15	3 250	1 350
—	—	—	—	—	—	—	—	—	—	—	—
36	7	78	—	31	9	251	86	85	19	4 545	2 726
—	—	—	—	—	—	—	—	—	—	—	—
11 954	724	24 334	1 293	22 470	2 932	30 275	6 037	80 855	11 740	1 512	104
345	—	17	—	43	5	134	—	2 107	21	1 512	104
—	—	—	—	—	—	—	—	—	—	—	—
11 609	724	24 317	1 293	22 427	2 927	30 141	6 037	78 748	11 719	—	—
1 017	495	988	581	1 530	938	2 544	1 270	2 412	423	4 516 081	3 050 432
113	12	34	—	274	21	95	14	325	19	2 875 544	1 685 405
18	—	6	—	29	6	20	7	94	16	22 880	15 631
832	477	914	572	1 151	874	877	730	1 216	1 052	1 449 531	1 216 385
42	6	26	6	59	31	620	331	687	321	152 844	127 473
12	—	8	3	17	6	932	188	90	15	15 282	5 538
—	—	—	—	—	—	—	—	—	—	—	—
16	10	7	—	15	2	28	16	105	53	10 721	7 838
—	—	—	—	5	—	10	10	80	52	5 264	4 688
—	—	—	—	10	2	12	—	25	—	1 842	375
16	10	7	—	—	—	6	—	—	—	3 615	2 775
—	—	—	—	—	—	—	—	—	—	—	—
44 015	32 770	17 828	13 734	22 394	17 252	41 781	31 166	40 067	30 919	1 534 175	1 200 691
2 301	818	1 029	531	873	303	2 735	1 364	2 089	1 137	84 715	51 681
1 068	503	596	349	596	214	687	941	1 528	956	60 012	39 136
147	23	74	54	40	11	83	71	42	22	1 524	482
801	255	232	118	146	43	330	219	199	121	13 292	8 958
14	—	7	—	—	—	8	—	—	—	292	199
271	37	120	10	163	35	627	133	320	38	9 595	2 906
1 670	1 040	1 441	1 208	513	329	1 351	1 005	646	38	26 140	17 626
999	616	1 352	1 142	506	329	1 254	949	565	81	24 680	16 633
34	41	89	66	7	—	97	56	93	—	1 460	993

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations	—
Technicians and related support occupations	—
Health technicians and technicians	—
Clinical laboratory technicians and technicians	—
Dental hygienists	—
Health record technicians and technicians	—
Radiologic technicians and technicians	—
Licensed practical nurses	—
Health technicians and technicians, n.e.c.	—
Engineering and related technicians and technicians	—
Electrical and electronic technicians	—
Mechanical engineering technicians	—
Industrial engineering technicians	—
Engineering technicians, n.e.c.	—
Drafting occupations	—
Surveying and mapping technicians	—
Science technicians	—
Biological technicians	—
Chemical technicians	—
Science technicians, n.e.c.	—
Technicians, except health, engineering, and science	—
Airplane pilots and navigators	—
Air traffic controllers	—
Broadcast equipment operators	—
Computer programmers	—
Tool programmers, numerical control	—
Legal assistants	—
Technicians, n.e.c.	—
Sales occupations	—
Supervisors and proprietors, sales occupations	—
Salaried	—
Self-employed	—
Sales representatives, finance and business services	—
Insurance sales occupations	—
Real estate sales occupations	—
Securities and financial services sales occupations	—
Advertising and related sales occupations	—
Sales occupations, other business services	—
Sales representatives, commodities, except retail	—
Sales engineers	—
Sales representatives, mining, manufacturing, and wholesale	—
Sales workers, retail and personal services	—
Sales workers, commodities	—
Sales counter clerks	—
Cashiers	—
Street and door-to-door sales workers	—
News vendors	—
Sales related occupations	—
Demonstrators, promoters and models, sales	—
Auctioneers	—
Sales support occupations, n.e.c.	—
Administrative support occupations, including clerical	—
Supervisors, administrative support occupations	—
Supervisors, general office	—
Supervisors, computer equipment operators	—
Supervisors, financial records processing	—
Chief communications operators	—
Supervisors; distribution, scheduling, and adjusting clerks	—
Computer equipment operators	—
Computer operators	—
Peripheral equipment operators	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Wholesale trade, nondurable goods—Con.						Retail trade					
	Petroleum products			Alcoholic beverages			Farm supplies			Miscellaneous wholesale, nondurable goods		
	Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female	Total
Technical, sales, and administrative support occupations—Con.												
Administrative support occupations, including dental—Con												
Secretaries, stenographers, and typists—												
Secretaries	12 011	11 810	4 249	4 193	5 355	8 493	8 342	13 892	225 942	221 899	13 455	13 196
Stenographers	11 116	10 937	3 893	3 837	5 076	7 246	7 148	12 650	198 577	195 464	12 701	12 468
Typists	168	163	13	13	19	46	46	97	1 069	940	47	47
Information clerks	727	710	343	343	276	1 201	1 148	1 203	26 296	25 495	707	681
Information clerks	1 087	957	575	537	306	1 059	952	954	47 767	44 639	1 576	1 394
Interviewers	303	251	84	77	35	111	74	88	14 543	13 226	228	202
Hotel clerks	—	—	—	—	—	—	—	—	—	—	—	—
Transportation ticket and reservation agents	23	9	11	5	—	8	—	13	1 012	734	22	14
Receptionists	647	619	408	389	188	762	749	674	25 455	24 692	1 027	959
Information clerks, n.e.c.	114	78	72	66	52	178	129	113	6 757	5 987	299	219
Records processing occupations, except financial	1 305	946	1 143	885	564	3 440	2 560	1 397	96 403	73 038	2 225	1 038
Classified clerks	6	—	—	10	—	102	88	35	2 402	1 238	74	30
Correspondence clerks	533	302	945	744	406	2 502	1 690	952	71 439	50 737	1 657	568
Order clerks	83	67	7	7	4	36	21	32	4 347	4 207	51	45
Personnel clerks, except payroll and timekeeping	19	12	—	—	—	54	41	—	341	207	—	—
Librarian clerks	572	494	162	124	136	528	489	336	12 862	11 847	390	340
File clerks	74	53	—	—	22	190	168	49	3 073	2 572	44	35
Records clerks	—	—	—	—	—	—	—	—	—	—	—	—
Financial records processing occupations	12 257	10 488	4 048	3 510	7 362	8 642	7 841	6 292	436 006	405 717	25 817	23 631
Bookkeepers, accounting, and auditing clerks	11 272	9 656	3 681	3 185	7 193	7 373	6 718	5 657	392 232	367 588	24 193	22 294
Payroll and timekeeping clerks	263	251	143	143	81	220	206	113	13 707	13 025	379	372
Billing clerks	520	440	163	134	234	800	706	347	15 176	14 034	760	656
Cash and rate clerks	111	71	31	18	45	216	192	147	12 425	9 063	381	214
Billing, posting, and calculating machine operators	91	70	30	30	16	33	19	28	2 466	2 007	104	95
Duplicating, mail, and other office machine operators	62	50	7	7	14	63	47	11	3 001	2 171	24	13
Duplicating machine operators	10	5	—	—	6	12	7	—	599	375	—	—
Mail preparing and paper handling machine operators	—	—	—	—	—	—	—	—	—	—	—	—
Office machine operators, n.e.c.	52	45	7	7	15	37	26	3	1 558	1 260	5	13
Communications equipment operators	133	121	135	135	55	182	182	62	17 253	16 767	329	324
Telephone operators	120	113	135	135	50	182	182	62	17 085	16 666	324	324
Telegraphers	13	8	—	—	—	—	—	—	114	71	—	—
Communications equipment operators, n.e.c.	—	—	—	—	—	—	—	—	54	30	5	—
Mail and message distributing occupations	526	205	181	16	192	746	318	69	22 140	9 944	438	102
Postal clerks, except mail carriers	—	—	—	—	—	—	—	—	—	—	—	—
Mail carriers, postal service	436	177	104	—	139	555	266	47	15 756	8 433	284	52
Mail clerks, except postal service	90	28	77	16	53	191	52	22	6 384	1 311	154	50
Messengers	—	—	—	—	—	—	—	—	—	—	—	—
Material recording, scheduling, and distributing clerks	3 980	831	2 122	368	2 012	7 933	2 666	1 793	292 514	124 813	8 737	1 546
Dispatchers	1 705	263	206	19	23	126	20	26	7 223	2 106	835	111
Production coordinators	614	172	108	45	155	348	145	145	21 039	13 165	489	131
Traffic, shipping, and receiving clerks	464	64	619	57	576	3 487	588	588	77 472	9 763	2 577	355
Stock and inventory clerks	818	231	969	210	936	3 089	1 168	728	139 146	45 139	3 282	682
Meter readers	—	—	—	—	—	—	—	—	—	—	—	—
Measurers, measurers, and checkers	186	37	174	—	67	528	283	80	6 835	3 703	792	97
Samplers	35	8	37	35	13	15	13	1	312	182	6	144
Expeditors	103	44	—	—	33	236	172	175	23 849	18 232	676	—
Material recording, scheduling, and distributing clerks, n.e.c.	35	12	9	—	30	43	28	97	16 638	14 842	80	26
Adjusters and investigators	767	375	215	142	429	686	462	231	37 423	27 249	489	168
Insurance adjusters, examiners, and investigators	—	—	—	—	—	—	—	—	—	—	—	—
Investigators and adjusters, except insurance	528	262	154	101	399	472	291	178	23 324	16 933	310	74
Eligibility clerks, social welfare	6	—	22	22	—	—	—	7	723	553	22	14
Bill and account collectors	233	113	39	19	30	214	171	46	13 376	9 763	157	80
Miscellaneous administrative support occupations	7 916	5 129	2 663	2 202	3 277	6 431	5 427	4 532	244 671	205 147	7 042	4 968
General office clerks	5 095	3 596	2 003	1 605	2 726	4 645	3 916	3 710	191 708	161 891	6 054	4 232
Bank tellers	—	—	—	—	—	—	—	—	—	—	—	—
Proofreaders	—	—	—	—	8	58	52	—	666	571	9	9
Data-entry keyers	1 700	954	499	484	333	1 102	1 048	483	28 731	26 616	515	481
Statistical clerks	425	282	93	85	22	230	191	90	7 761	6 574	144	122
Teachers aides	—	—	8	—	9	5	11	11	214	147	5	—
Administrative support occupations, n.e.c.	696	297	60	28	149	391	215	238	15 591	9 348	315	119

United States

United States

Employed persons 16 years and over—Con.

Service occupations.....	2 741	470	1 262	223	305	2 300	539	602	3 466	750	2 112	576	4 943	1 023
Private household occupations.....	326	19	205	—	—	287	11	56	44	978	15	771	1 039	39
Protective service occupations.....	29	—	7	—	—	4	—	—	2	427	496	—	29	6
Supervisors, protective service occupations.....	—	—	—	—	—	—	—	—	—	68	11	—	—	—
Supervisors, firefighting and fire prevention occupations.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives.....	29	—	7	—	—	4	—	—	2	359	485	—	23	—
Supervisors, guards.....	12	—	—	—	—	3	—	—	140	25	8	—	8	—
Firefighting and fire prevention occupations.....	12	—	—	—	—	3	—	—	80	11	—	—	—	—
Fire inspection and fire prevention occupations.....	—	—	—	—	—	—	—	—	60	8	—	—	—	—
Firefighting occupations.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Guards.....	285	19	198	—	—	280	11	56	42	411	15	250	1 002	39
Crossing guards.....	—	—	—	—	—	—	—	—	—	22	17	—	—	—
Guards and police, except public service.....	285	19	198	—	—	280	11	56	42	113	15	085	1 002	39
Guards and police, except public service, n.e.c.....	—	—	3	—	—	—	—	—	276	—	148	—	—	—
Service occupations, except protective and household.....	2 415	451	1 057	223	304	2 013	528	546	3 421	772	2 096	805	3 904	984
Food preparation and service occupations.....	167	37	165	78	46	180	130	133	3 177	197	2 013	082	166	63
Supervisors, food preparation and service occupations.....	33	12	15	—	—	19	5	9	155	341	85	211	12	6
Bartenders.....	—	—	65	12	—	8	6	6	236	329	104	935	13	—
Waiters and waitresses.....	14	—	35	35	6	4	—	—	1	198	177	066	180	34
Cooks, except short order.....	89	10	11	11	19	70	65	42	803	023	363	187	35	22
Short-order cooks.....	—	—	—	—	—	—	—	—	66	412	24	351	—	—
Food counter, fountain and related occupations.....	—	—	24	10	—	30	18	12	171	762	140	074	38	9
Kitchen workers, food preparation.....	—	—	3	3	—	12	12	11	63	449	48	716	—	—
Waiters and waitresses, assistants.....	6	—	3	—	—	7	—	—	166	099	50	061	—	—
Miscellaneous food preparation occupations.....	25	15	27	5	21	30	24	23	316	605	130	367	34	5
Miscellaneous food preparation occupations, n.e.c.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Health service occupations.....	6	—	18	—	10	29	24	28	18	481	15	445	15	8
Dental assistants.....	—	—	—	—	—	—	—	—	158	—	109	—	—	—
Health aides, except nursing.....	6	—	—	—	—	—	—	—	17	291	14	487	—	—
Nursing aides, orderlies, and attendants.....	—	—	18	—	10	29	24	28	17	291	14	487	—	—
Cleaning and building service occupations, except household.....	2 187	395	843	131	236	1 432	238	293	192	484	41	522	3 616	890
Supervisors, cleaning and building service workers.....	76	—	18	—	—	77	6	6	3	586	368	44	44	—
Maid and housemen.....	108	54	50	22	15	74	40	72	25	415	10	183	483	173
Janitors and cleaners.....	1 977	335	790	109	221	1 261	198	221	161	882	30	364	3 076	717
Elevator operators.....	20	6	3	—	—	9	—	6	1	533	602	13	—	—
Pest control occupations.....	6	—	87	—	—	11	—	—	68	—	5	—	—	—
Personal service occupations.....	55	19	49	14	30	372	136	92	33	410	26	756	107	23
Supervisors, personal service occupations.....	—	—	11	—	12	—	—	—	52	296	7	—	7	—
Babysitters.....	—	—	2	—	—	—	—	—	286	—	17	—	4	—
Hairstylists and cosmetologists.....	—	—	4	—	—	15	15	5	8	630	7	807	13	—
Attendants, amusement and recreation facilities.....	—	—	6	—	6	—	—	6	1	124	577	178	5	—
Guides.....	8	—	—	—	—	—	—	—	341	178	52	—	—	—
Ushers.....	8	—	—	2	—	6	—	—	123	—	—	—	—	—
Public transportation attendants.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Wellfare service aides.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Child care workers, except private household.....	—	—	7	—	6	—	—	—	—	—	—	—	—	—
Personal service occupations, n.e.c.....	39	19	23	12	—	30	117	23	1	868	16	423	32	6
Farming, forestry, and fishing occupations.....	54	—	35	8	38	3 725	1 672	15	14	641	5	686	1 024	16
Farm operators and managers.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial.....	—	—	29	—	13	1 664	984	8	4	079	2	396	10	8
Related agricultural occupations.....	47	—	131	8	25	1 741	659	15	8	91	3	192	284	—
Supervisors, related agricultural occupations.....	—	—	9	—	—	35	8	—	—	—	—	—	—	—
Groundskeepers and gardeners, except farm.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Animal caretakers, except farm.....	39	—	14	8	8	1 645	634	15	5	993	1	026	243	—
Animal caretakers, except farm, n.e.c.....	8	—	15	—	17	61	17	7	2	783	2	141	23	—
Graders and sorters, agricultural products.....	—	—	2	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Wholesale trade, nondurable goods—Con.

Petroleum products	Alcoholic beverages	Farm supplies	Miscellaneous wholesale, nondurable goods	Not specified wholesale trade	Total	Female	Lumber and building material retailing
Total	Total	Total	Total	Total	Total	Total	Total
2 741	1 262	1 828	2 300	1 700	3 466	2 112	576
470	223	305	539	602	750	496	1 023
19	—	—	—	—	—	—	39
326	205	132	287	245	44	15	1 039
29	7	—	4	5	2	496	29
—	—	—	—	—	68	11	6
—	—	—	—	—	—	—	—
29	7	—	4	5	2	485	23
12	—	—	3	—	140	25	8
12	—	—	3	—	80	11	—
—	—	—	—	—	60	8	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
285	198	132	280	240	42	15	1 002
19	—	—	—	—	22	17	39
198	198	129	280	56	42	15	1 002
—	—	3	—	—	276	148	—
451	223	1 696	2 013	1 455	3 421	2 096	805
37	78	78	180	208	3 177	197	2 013
12	—	15	19	9	155	341	85
—	12	—	8	6	211	12	6
—	65	6	4	—	236	329	104
14	35	6	—	42	935	13	—
89	11	26	70	53	1	198	177
—	—	—	—	—	066	180	34
—	—	—	—	—	803	023	363
—	—	—	—	—	187	35	22
—	—	—	—	—	66	412	24
—	24	10	30	19	24	351	—
—	3	—	12	12	171	762	140
6	3	—	7	11	48	074	38
25	5	21	30	18	63	449	48
—	—	—	—	23	166	099	50
6	—	18	29	28	50	061	—
—	—	10	24	—	130	367	34
—	—	—	—	—	—	—	—
6	—	—	—	—	15	445	15
—	—	—	—	—	18	—	—
6	—	—	—	—	17	291	14
—	—	—	—	—	158	109	—
—	—	—	—	—	17	291	14
—	—	—	—	—	28	849	—
395	131	1 570	1 432	1 091	192	484	41
76	—	18	77	6	522	3	616
—	—	—	—	—	368	44	—
108	54	91	261	96	25	415	10
335	109	1 296	1 261	983	161	882	30
20	6	87	9	6	1	533	602
—	—	—	11	—	68	5	13
—	—	—	—	—	—	—	—
19	14	30	372	128	33	410	26
—	—	11	12	92	26	756	107
—	—	2	—	12	52	296	7
—	—	4	—	—	286	17	—
—	—	—	15	5	8	630	7
—	—	6	—	6	1	124	577
8	2	—	—	—	341	178	13
8	—	—	6	—	52	—	5
—	—	—	—	—	123	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	117	32	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
39	2	7	321	23	1	868	32
19	12	—	30	82	20	399	16
—	—	—	—	—	46	—	6
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—</	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Wholesale trade, nondurable goods—Con.										Retail trade	
	Petroleum products		Alcoholic beverages		Farm supplies		Miscellaneous wholesale, nondurable goods		Not specified wholesale trade		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con.												
Forestry and logging occupations	—	—	6	—	14	—	292	16	—	—	1 150	64
Supervisors, forestry and logging workers	—	—	—	—	—	—	13	—	—	—	46	7
Forestry workers, except logging	—	—	6	—	12	—	34	8	—	—	185	33
Timber cutting and logging occupations	—	—	—	—	—	—	245	8	—	—	919	24
Fishers, hunters, and trappers	7	—	—	—	7	—	28	13	4	—	471	34
Captains and other officers, fishing vessels	—	—	—	—	—	—	—	—	—	—	41	—
Fishers	7	—	—	—	5	—	28	13	—	—	390	26
Hunters and trappers	—	—	—	—	2	—	—	—	4	—	40	8
Precision production, craft, and repair occupations												
Mechanics and repairers	18 608	526	5 415	300	7 489	262	8 310	1 642	7 106	1 098	1 266 536	165 212
Supervisors, mechanics and repairers	8 235	68	1 342	23	3 065	11	1 251	91	2 281	152	619 354	10 670
Mechanics and repairers, except supervisors	7 319	59	1 81	12	2 133	15	1 86	6	2 132	145	570 517	9 289
Vehicle and mobile equipment mechanics and repairers	2 916	—	260	7	1 436	6	213	8	971	7	372 139	3 981
Automobile mechanics	1 364	7	583	7	228	—	168	8	770	—	344 219	3 194
Bus, truck, and stationary engine mechanics	511	—	110	—	210	—	45	—	25	—	6 199	2
Aircraft engine mechanics	14	—	—	—	—	—	—	—	—	—	6 367	12
Small engine repairers	16	—	—	—	98	—	—	—	—	—	15 631	219
Automobile body and related repairers	54	—	12	—	33	—	14	—	129	6	51 516	494
Aircraft mechanics, except engine	18	—	24	—	81	—	21	—	36	—	2 197	65
Heavy equipment mechanics	57	—	11	—	486	6	20	—	7	—	922	—
Farm equipment mechanics	17	—	—	—	—	—	—	—	—	—	—	—
Industrial machinery repairers	1 126	2	160	6	392	—	245	21	203	25	12 456	378
Machinery maintenance occupations	671	22	15	5	5	—	—	—	20	8	869	9
Electrical and electronic equipment repairers	257	6	36	—	119	6	73	8	121	33	64 294	1 559
Electronic repairers, communications and industrial equipment	74	—	8	—	12	—	—	—	23	9	28 657	365
Data processing equipment repairers	40	—	2	—	6	—	24	—	18	12	2 119	165
Household appliance and power tool repairers	62	—	14	—	83	6	34	8	30	—	31 353	809
Telephone line installers and repairers	2	—	—	—	—	—	—	—	—	—	46	10
Telephone installers and repairers	31	6	2	—	4	—	—	—	36	12	759	146
Miscellaneous electrical and electronic equipment repairers	48	—	10	—	14	—	15	—	14	—	1 380	64
Heating, air conditioning, and refrigeration mechanics	1 746	9	24	—	92	—	24	—	27	—	15 463	133
Miscellaneous mechanics and repairers	2 005	13	286	5	868	—	548	48	864	72	64 306	3 312
Camera, watch, and musical instrument repairers	19	—	—	—	13	—	10	8	24	—	9 649	663
Locksmiths and safe repairers	7	—	9	—	—	—	—	—	3	—	592	23
Office machine repairers	2	—	2	—	10	—	15	2	18	—	5 395	335
Mechanical controls and valve repairers	100	—	—	—	9	—	5	—	—	—	732	51
Elevator installers and repairers	42	—	—	—	7	—	—	—	—	—	367	18
Millwrights	31	—	5	—	123	—	12	—	270	32	979	33
Specified mechanics and repairers, n.e.c.	913	13	80	5	279	—	175	38	207	7	32 567	1 578
Not specified mechanics and repairers	891	—	190	—	427	—	331	—	342	33	14 025	611
Construction trades	1 565	10	254	23	579	21	924	47	494	40	112 287	3 000
Supervisors, construction occupations	263	—	26	—	64	5	50	—	37	—	3 850	144
Supervisors, brickmasons, stonemasons, and tile setters	—	—	—	—	2	—	6	—	—	—	65	5
Supervisors, carpenters and related workers	—	—	—	—	2	—	—	—	—	—	287	10
Supervisors, electricians and power transmission installers	39	—	—	—	7	5	6	—	6	—	251	14
Supervisors, painters, paperhangers, and plasterers	—	—	—	—	—	—	15	—	—	—	29	—
Supervisors, plumbers, pipefitters, and steamfitters	—	—	—	—	—	—	—	—	—	—	34	—
Supervisors, n.e.c.	224	—	26	—	55	—	29	—	31	—	3 184	115
Construction trades, except supervisors	1 302	10	228	23	515	16	874	47	457	40	108 437	2 856
Brickmasons and stonemasons	14	—	9	—	15	—	29	—	9	—	1 073	27
Tile setters, hard and soft	—	—	—	—	—	—	—	—	—	—	2 835	11
Carpet installers	—	—	—	—	2	—	19	—	—	—	38 941	472
Carpenters	182	—	74	13	166	—	184	—	136	14	23 621	621
Drywall installers	—	—	10	—	—	—	—	—	—	—	23 207	—
Electricians	303	—	38	—	132	—	37	—	86	8	6 542	139
Electrical power installers and repairers	11	6	5	—	—	—	2	—	—	—	357	33
Painters, construction and maintenance	81	—	38	—	91	2	460	47	108	18	7 275	739
Paperhangers	6	—	—	—	2	—	34	—	—	—	512	104
Lumber and building material retailing												
Total	721	13	—	—	—	—	—	—	—	—	48 532	1 917
Female	—	—	—	—	—	—	—	—	—	—	5 473	73
Total	721	13	—	—	—	—	—	—	—	—	48 532	1 917
Female	—	—	—	—	—	—	—	—	—	—	5 473	73
Total	721	13	—	—	—	—	—	—	—	—	48 532	1 917
Female	—	—	—	—	—	—	—	—	—	—	5 473	73

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

United States

Employed persons 16 years and over—Con.						
Precision production, craft, and repair occupations—Con.						
Construction trades—Con.						
Construction trades except supervisors—Con.						
	Total	Female	Total	Female	Total	Female
Plasterers.....	—	—	—	—	—	—
Plumbers, pipefitters, and steamfitters.....	552	4	12	—	20	—
Concrete and terrazzo finishers.....	3	—	—	—	45	—
Glaziers.....	—	—	—	—	—	—
Insulation workers.....	42	—	—	—	—	—
Paving, surfacing, and tamping equipment operators.....	—	—	—	—	—	—
Roofers.....	19	—	—	—	—	—
Sheetmetal duct installers.....	14	—	—	—	—	—
Structural metal workers.....	16	—	—	—	—	—
Drillers, earth.....	1	—	—	—	—	—
Construction trades, n.e.c.....	59	—	—	—	—	—
Extractive occupations.....	287	—	—	—	—	—
Supervisors, extractive occupations.....	93	—	—	—	—	—
Drillers, oil well.....	89	—	—	—	—	—
Explosives workers.....	3	—	—	—	—	—
Mining machine operators.....	13	—	—	—	—	—
Mining occupations, n.e.c.....	89	—	—	—	—	—
Precision production occupations.....	8 521	448	3 819	254	6 131	1 504
Supervisors, production occupations.....	6 508	248	3 648	183	5 434	1 236
Precision metalworking occupations.....	329	7	108	—	241	44
Tool and die makers.....	3	—	—	—	8	—
Precision assemblers, metal.....	11	—	—	—	—	—
Machinists.....	206	—	101	—	111	24
Boilermakers.....	60	—	—	—	17	—
Precision grinders, filers, and tool sharpeners.....	—	—	—	—	2	—
Patternmakers and model makers, metal.....	—	—	—	—	4	—
Lay-out workers.....	—	—	—	—	17	—
Precious stones and metals workers (jewelers).....	—	—	—	—	4	—
Engravers, metal.....	—	—	—	—	57	16
Sheet metal workers.....	49	—	—	—	21	—
Miscellaneous precision metal workers.....	—	—	—	—	5	—
Precision woodworking occupations.....	1	—	—	—	30	—
Patternmakers and model makers, wood.....	—	—	—	—	—	—
Cabinet makers and bench carpenters.....	1	—	—	—	11	—
Furniture and wood finishers.....	—	—	—	—	19	—
Miscellaneous precision woodworkers.....	—	—	—	—	—	—
Precision textile, apparel, and furnishings machine workers.....	20	20	77	21	214	154
Dressmakers.....	20	6	72	19	158	127
Tailors.....	—	—	—	—	—	—
Upholsterers.....	—	—	—	—	5	—
Shoe repairers.....	—	—	—	—	31	20
Apparel and fabric patternmakers.....	—	—	—	—	12	7
Miscellaneous precision apparel and fabric workers.....	—	—	—	—	92	47
Precision workers, assorted materials.....	85	5	39	—	15	—
Hand molders and shapers, except jewelers.....	—	—	—	—	—	—
Patternmakers, lay-out workers, and cutters.....	—	—	—	—	—	—
Optical goods workers.....	—	—	—	—	15	2
Dental laboratory and medical appliance technicians.....	—	—	—	—	3	3
Bookbinders.....	—	—	—	—	64	42
Electrical and electronic equipment assemblers.....	6	—	—	—	—	—
Miscellaneous precision workers, n.e.c.....	79	5	25	—	10	—
Precision food production occupations.....	72	—	—	—	—	—
Butchers and meat cutters.....	72	—	—	—	—	—
Bakers.....	—	—	—	—	31	7
Food batchmakers.....	—	—	—	—	13	—
Food batchmakers, testers, and related workers.....	—	—	—	—	8	—
Inspectors, testers, and graders.....	52	6	—	—	5	—
Adjusters and calibrators.....	52	6	—	—	5	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Wholesale trade, nondurable goods—Con.						Retail trade							
	Petroleum products		Alcoholic beverages		Farm supplies		Miscellaneous wholesale, nondurable goods		Not specified wholesale trade		Total		Lumber and building material retailing	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States														
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con.														
Precision production occupations—Con.														
Plant and system operators	1 454	16	35	—	109	—	63	4	60	—	3 384	147	94	2
Water and sewage treatment plant operators	16	—	—	—	7	—	4	—	7	—	93	9	—	—
Power plant operators	708	6	26	—	21	—	30	4	47	—	83	11	—	—
Stationary engineers	730	10	9	—	81	—	29	—	6	—	2 389	78	35	2
Miscellaneous plant and system operators	—	—	—	—	—	—	—	—	—	—	619	49	59	—
Operators, fabricators, and laborers	50 720	954	45 072	1 079	36 744	2 062	38 840	10 498	22 181	5 339	1 665 463	331 262	93 002	2 448
Machine operators, assemblers, and inspectors	3 331	224	1 540	472	6 657	694	6 500	3 091	6 514	3 065	149 258	58 867	15 460	1 004
Machine operators and tenders, except precision	2 357	149	1 209	363	5 406	348	4 321	1 705	4 359	1 919	96 360	38 535	11 493	595
Metalworking and plastic working machine operators	27	—	29	25	270	13	74	24	181	35	3 008	590	458	21
Metalworking and plastic set-up operators	—	—	—	—	—	—	—	—	—	—	53	—	—	—
Lathe and turning machine operators	—	—	—	—	5	—	13	8	23	—	272	53	89	7
Milling and planing machine operators	—	—	—	—	30	—	—	—	9	—	84	7	40	7
Punching and stamping press machine operators	—	—	25	25	4	2	29	11	50	19	431	162	68	—
Rolling machine operators	8	—	—	—	—	—	—	—	—	—	26	14	—	—
Drilling and boring machine operators	12	—	—	—	3	—	—	—	6	—	150	15	17	—
Grinding, abrading, buffing, and polishing machine operators	7	—	—	—	226	11	28	5	74	16	1 768	289	216	7
Forging machine operators	—	—	4	—	—	—	—	—	4	—	76	6	16	—
Numerical control machine operators	—	—	—	—	—	—	—	—	—	—	7	—	7	—
Miscellaneous metal, plastic, stone, and glass working machine operators	—	—	—	—	2	—	4	—	15	—	141	44	5	—
Fabricating machine operators, n.e.c.	20	—	5	—	—	—	5	2	8	2	272	112	56	—
Metal and plastic processing machine operators	46	—	29	—	22	8	92	16	141	45	1 662	616	102	25
Molding and casting machine operators	27	—	21	—	20	8	80	16	118	40	1 305	532	78	20
Metal plating machine operators	8	—	8	—	—	—	6	—	22	5	217	57	16	—
Heat treating equipment operators	—	—	—	—	—	—	—	—	1	—	75	27	—	—
Miscellaneous metal and plastic processing machine operators	3	—	—	—	2	—	6	—	—	—	65	—	8	—
Woodworking machine operators	10	—	—	—	48	—	164	—	55	10	4 209	275	2 813	65
Wood lathe, routing, and planing machine operators	—	—	—	—	—	—	—	—	—	—	81	—	65	—
Sawing machine operators	10	—	—	—	14	—	109	—	47	10	2 687	118	2 283	50
Shaping and joining machine operators	—	—	—	—	—	—	7	—	—	—	181	21	80	6
Nailing and tacking machine operators	—	—	—	—	6	—	48	—	8	—	15	12	3	—
Miscellaneous woodworking machine operators	—	—	—	—	28	—	—	—	—	—	1 245	124	382	9
Printing machine operators	131	14	49	12	61	16	351	149	118	43	6 465	2 675	109	11
Finishing machine operators	96	—	39	12	43	6	198	55	109	41	4 886	1 719	99	—
Photographers and lithographers	20	8	—	—	—	—	40	30	—	—	271	79	—	—
Typesetters and compositors	6	—	10	—	10	10	74	34	9	2	989	729	—	—
Miscellaneous printing machine operators	9	—	8	—	8	—	39	169	621	480	319	148	10	—
Textile, apparel, and furnishings machine operators	19	10	34	7	72	19	183	36	44	31	13 570	10 944	282	27
Knitting and twisting machine operators	—	—	7	—	—	—	56	—	—	—	67	53	—	—
Knitting, looping, fapping, and weaving machine operators	9	—	—	—	—	—	—	—	55	44	245	220	6	—
Textile cutting machine operators	—	—	—	—	—	—	—	—	8	—	73	14	—	—
Textile sewing machine operators	4	4	5	5	40	17	99	86	405	350	9 034	8 159	208	24
Shoe machine operators	—	—	—	—	—	—	—	—	37	30	382	210	25	3
Pressing machine operators	—	—	—	—	—	—	8	5	30	4	1 296	715	2	—
Laundry and dry cleaning machine operators	—	—	—	—	—	—	5	—	4	—	1 889	1 364	13	—
Miscellaneous textile machine operators	6	6	22	2	32	2	15	14	38	31	584	209	28	—
Machine operators, assorted materials	2 104	125	1 063	319	4 933	292	3 452	1 345	3 235	1 294	67 174	23 323	7 673	446
Cementing and gluing machine operators	—	—	—	—	2	—	22	22	21	10	467	115	19	4
Packaging and filling machine operators	180	11	420	148	69	37	104	40	65	35	1 803	958	19	10
Extruding and forming machine operators	4	—	—	—	77	—	—	—	19	12	64	28	7	—
Mixing and blending machine operators	170	6	81	7	944	11	308	37	113	25	2 104	509	468	60
Separating, filtering, and clarifying machine operators	103	—	—	—	548	38	22	26	17	—	337	113	4	—
Compressing and compacting machine operators	8	—	32	27	45	16	120	45	12	—	498	160	22	8
Painting and point spraying machine operators	17	—	13	—	30	2	117	12	123	36	11 648	555	830	13
Roasting and baking machine operators, food	6	—	—	—	2	—	—	—	23	—	109	23	7	—
Washing, cleaning, and picking machine operators	—	—	—	—	—	—	—	—	—	—	126	6	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

United States

Employed persons 16 years and over—Con.									
Operators, fabricators, and laborers—Con.									
Machine operators, assemblers, and inspectors—Con.									
Machine operators and tenders, except precision—Con.									
Machine operators, assorted materials—Con.									
	Total	Female	Total	Female	Total	Female	Total	Female	Female
Folding machine operators	—	—	10	4	31	18	19	5	150
Furnace, kiln, and oven operators, except food	188	22	—	—	83	13	9	—	102
Crushing and grinding machine operators	4	—	1 017	14	41	13	30	—	144
Slicing and cutting machine operators	18	—	66	33	616	184	234	79	2 285
Motion picture projectionists	—	—	—	—	—	—	7	—	12
Photographic process machine operators	38	6	—	—	33	22	43	7	1 005
Miscellaneous machine operators, n.e.c.	524	28	794	34	883	453	439	7	9 733
Machine operators, not specified	844	74	1 287	105	1 072	505	1 647	634	7 327
Fabricators, assemblers, and hand working occupations									
Welders and cutters	710	63	759	86	1 359	792	1 627	761	40 762
Solderers and brazers	472	10	424	8	121	—	379	31	4 691
Assemblers	219	53	289	78	1 049	684	1 152	713	100 37
Hand cutting and trimming occupations	—	—	13	—	—	—	9	2	26 627
Hand molding, casting, and forming occupations	—	—	—	—	74	52	42	10	2 361
Hand painting, coating and decorating occupations	2	—	22	—	67	18	17	5	851
Hand engraving and printing occupations	—	—	—	—	—	—	—	—	2 328
Hand grinding and polishing occupations	—	—	—	—	—	—	—	—	124
Miscellaneous hand working occupations	17	—	11	—	48	38	16	—	190
Production inspectors, testers, samplers, and weighers	264	12	492	260	820	594	528	385	12 136
Production inspectors, checkers, and examiners	232	10	109	55	257	172	399	309	5 771
Production testers	21	4	9	—	27	7	10	—	232
Production samplers and weighers	—	—	14	—	8	8	10	—	140
Graders and sorters, except agricultural	11	2	360	205	528	407	109	76	5 993
Transportation and material moving occupations									
Motor vehicle operators	41 676	336	17 742	180	15 083	1 035	7 540	251	354 613
Supervisors, motor vehicle operators	40 094	307	16 263	152	13 820	941	6 406	196	320 706
Truck drivers, heavy	29 827	249	11 600	77	4 362	165	3 374	50	3 488
Truck drivers, light	8 433	40	4 188	58	7 198	624	1 712	89	120 495
Driver-sales workers	1 444	7	372	9	1 776	129	1 048	43	142 055
Bus drivers	21	2	20	6	—	—	23	—	42 638
Toxicab drivers and chauffeurs	269	9	69	6	238	17	182	14	836
Parking lot attendants	—	—	7	—	22	—	—	—	3 831
Motor transportation occupations, n.e.c.	—	—	—	—	—	—	—	—	84
Rail transportation occupations									
Railroad conductors and yardmasters	7	—	16	—	—	—	19	7	188
Locomotive operating occupations	7	—	9	—	—	—	7	7	58
Railroad brake, signal, and switch operators	—	—	6	—	—	—	5	—	57
Rail vehicle operators, n.e.c.	—	—	—	—	—	—	—	—	65
Water transportation occupations									
Ship captains and mates, except fishing boats	541	6	27	—	8	—	27	—	8
Sailors and deckhands	205	—	6	—	—	—	7	—	458
Marine engineers	328	6	7	—	—	—	—	—	169
Bridge, lock, and lighthouse tenders	8	—	14	—	8	—	20	—	174
Material moving equipment operators									
Supervisors, material moving equipment operators	1 034	23	1 436	28	1 255	94	1 088	48	33 214
Operating engineers	40	62	55	6	57	—	33	6	4 154
Longshore equipment operators	18	—	49	—	18	—	10	—	501
Hoist and winch operators	15	—	—	—	—	—	9	—	8
Crane and tower operators	48	—	—	—	66	—	56	7	123
Excavating and loading machine operators	18	—	39	3	15	—	1	—	397
Grader, dozer, and scraper operators	26	—	107	2	5	—	2	—	675
Industrial truck and tractor equipment operators	312	—	1 027	9	930	54	850	6	21 645
Miscellaneous material moving equipment operators	557	16	209	11	164	50	120	29	5 241
									1 351
									5 768
									43
									507
									397
									290
									184
									177
									92
									21
									8
									363
									6
									43
									43
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—
									—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

United States

United States

Wholesale trade, nondurable goods—Con														
	Petroleum products		Alcoholic beverages		Farm supplies		Miscellaneous wholesale, nondurable goods		Not specified wholesale trade		Retail trade			
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
Employed persons 16 years and over—Con.														
Operators, fabricators, and laborers—Con	5 713	394	9 103	392	12 345	1 188	17 257	6 372	8 127	2 023	1 161 592	245 988	30 803	1 047
Handlers, equipment cleaners, helpers, and laborers—														
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	21	—	14	—	16	8	25	6	8	—	560	217	41	—
Helpers, mechanics and repairers	46	—	31	—	31	11	11	—	18	—	3 331	175	27	—
Helpers, construction and extractive occupations	10	—	9	—	9	—	31	—	32	—	1 382	94	468	10
Helpers, construction trades	8	—	—	—	9	—	31	—	32	—	1 560	74	468	10
Helpers, surveyor	2	—	—	—	—	—	—	—	—	—	22	20	—	—
Helpers, extractive occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Construction laborers	125	—	—	—	51	—	130	17	63	—	2 832	144	782	15
Production helpers	107	—	91	—	143	26	56	9	67	—	10 766	3 583	182	10
Freight, stock, and material handlers	1 137	76	3 733	69	4 680	83	2 602	358	1 942	229	622 279	122 809	10 553	393
Garbage collectors	5	—	8	—	19	—	—	—	30	—	324	29	10	—
Stevedores	—	—	21	—	3	—	2	—	71	—	42	9	7	—
Stock handlers and baggers	116	23	437	23	1 097	47	991	284	726	187	578 579	117 880	2 994	298
Machine feeders and offbearers	29	—	89	17	24	2	16	6	56	18	4 879	3 280	108	4
Freight, stock, and material handlers, n.e.c.	987	53	3 178	29	3 537	34	1 593	68	1 059	24	38 455	1 611	7 434	90
Garage and service station related occupations	873	126	27	—	184	3	39	5	26	11	269 792	21 690	183	7
Vehicle washers and equipment cleaners	98	—	107	12	58	—	61	—	85	—	32 538	2 878	81	7
Hand packers and packagers	131	16	424	209	1 995	567	3 301	1 875	1 267	37	83 093	67 693	344	78
Laborers, except construction	3 165	176	4 707	102	5 978	501	11 001	4 083	4 619	1 065	134 819	26 701	18 142	529

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Employed persons 16 years and over—Con

Managerial and professional specialty occupations—Con
Professional specialty occupations—Con.

Natural scientists

- Physicists and astronomers
- Chemists, except biochemists
- Atmospheric and space scientists
- Geologists and geodesists
- Physical scientists, n.e.c.

Agricultural and food scientists

- Biological and life scientists
- Forestry and conservation scientists
- Medical scientists

Health diagnosing occupations

- Physicians
- Dentists
- Veterinarians
- Ophthalmists
- Podiatrists
- Health diagnosing practitioners, n.e.c.

Health assessment and treating occupations

- Registered nurses
- Pharmacists
- Dietitians
- Therapists
- Physicians' assistants

Teachers, postsecondary

- Teachers, except postsecondary
- Teachers, prekindergarten and kindergarten
- Teachers, elementary and secondary school
- Teachers, special education
- Teachers, n.e.c.

Counselors, educational and vocational

- Librarians, archivists, and curators
- Archivists and curators

Social scientists and urban planners

- Economists
- Psychologists
- Sociologists
- Social scientists, n.e.c.
- Urban planners

Social, recreation, and religious workers

- Social workers
- Recreation workers
- Clergy
- Religious workers, n.e.c.

Lawyers and judges

- Lawyers
- Judges

Writers, artists, entertainers, and athletes

- Authors
- Technical writers
- Designers
- Musicians and composers
- Actors and directors
- Painters, sculptors, craft-artists, and artist printmakers
- Photographers
- Dancers

Artists, performers, and related workers, n.e.c.

- Editors and reporters
- Public relations specialists
- Announcers
- Athletes

[illegible]

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Hardware stores				Retail nurseries and garden stores				Mobile home dealers				General merchandise stores				Miscellaneous general merchandise stores			
	Total		Female		Total		Female		Total		Female		Total		Female		Total		Female	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations	147 993	61 951	30 385	14 522	17 223	6 216	1 513 170	1 205 980	1 287 412	1 030 446	123 208	100 496	102 550	74 838	211					
Technicians and related support occupations	408	100	78	16	53	13	6 459	1 863	5 458	1 545	406	107	395	211						
Health occupations	—	—	—	—	—	—	39	—	157	87	—	—	—	—	—					
Health record technicians and technicians	—	—	—	—	—	—	5	—	39	—	—	—	—	—	—					
Dental hygienists	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Health record technicians and technicians	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Radiologic technicians	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Licensed practical nurses	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Health technicians and technicians, n.e.c.	—	—	—	—	—	—	43	31	43	31	—	—	—	—	—					
Engineering and related technicians and technicians	138	31	34	6	—	—	1 939	227	1 717	212	63	—	159	15	—					
Electrical and electronic technicians	51	8	—	—	—	—	1 205	67	1 111	67	21	—	73	7	—					
Industrial engineering technicians	—	—	—	—	—	—	32	—	25	—	—	—	—	—	—					
Mechanical engineering technicians	3	3	—	—	—	—	20	—	—	—	—	—	—	—	—					
Engineering technicians, n.e.c.	33	4	13	—	—	—	149	46	111	46	—	—	—	—	—					
Drafting occupations	46	11	21	6	—	—	503	107	420	92	36	—	32	15	—					
Surveying and mapping technicians	5	—	—	—	—	—	30	7	30	7	—	—	—	—	—					
Science technicians	63	24	19	10	7	—	133	98	91	70	14	5	28	23	—					
Biological technicians	46	16	15	10	—	—	5	5	—	—	—	—	—	—	—					
Chemical technicians	8	8	4	—	7	—	33	33	26	26	—	—	—	—	—					
Science technicians, n.e.c.	9	—	—	—	—	—	95	60	65	44	—	—	—	—	—					
Technicians, except health, engineering, and science	207	45	25	—	46	13	4 219	1 445	3 493	1 176	323	96	403	173	—					
Airplane pilots and navigators	—	—	—	—	—	—	56	—	41	—	—	—	—	—	—					
Air traffic controllers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Broadcast equipment operators	—	—	—	—	—	—	—	—	62	57	—	—	—	—	—					
Computer programmers	99	31	8	—	—	—	2 415	921	1 930	725	242	77	243	119	—					
Tool programmers, numerical control	12	—	—	—	—	—	55	23	33	16	—	—	—	—	—					
Legal assistants	7	—	—	—	—	—	209	178	164	142	23	14	22	22	—					
Technicians, n.e.c.	81	14	17	—	34	8	1 422	266	1 263	236	39	5	120	25	—					
Sales occupations	116 464	39 639	22 982	8 537	12 802	2 185	1 130 668	896 358	953 117	758 639	101 016	83 121	76 535	54 598						
Supervisors and proprietors, sales occupations	26 784	3 744	2 434	1 321	2 942	223	140 510	84 738	119 193	64 844	25 457	13 355	15 842	6 419						
Sales managers	1 987	2 221	3 795	602	2 181	295	150 036	80 797	117 284	64 119	21 789	11 789	10 973	4 889						
Self-employed	9 797	1 543	2 839	719	785	113	10 454	3 941	1 897	745	3 668	1 466	4 889	1 720						
Sales representatives, finance and business services	59	13	5	—	83	24	1 795	1 283	1 635	1 176	—	77	74	28						
Radiance sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Real estate sales occupations	18	—	—	—	78	24	355	199	342	193	—	—	—	—	—					
Securities and financial sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Advertising and related sales occupations	41	13	5	—	5	—	1 440	1 084	1 293	983	73	73	74	28						
Sales occupations, other business services	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Sales representatives, commodities, except retail	97	24	6	—	5	—	69	16	59	16	—	—	—	—	—					
Sales engineers	97	24	6	—	5	—	69	16	59	16	—	—	—	—	—					
Sales representatives, mining, manufacturing, and wholesale	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Sales workers, retail and personal services	89 486	35 809	16 317	7 199	9 776	1 838	966 471	808 489	830 497	691 022	75 435	69 757	60 539	47 910						
Sales workers, commodities	75 732	23 427	14 374	5 369	9 669	1 777	762 922	617 465	671 927	542 416	47 382	42 753	43 613	32 296						
Sales counter clerks	97	37	25	7	10	2	2 259	2 038	1 978	1 827	175	135	106	76						
Cashiers	13 464	12 287	1 895	1 808	76	45	195 253	183 635	150 878	141 514	27 788	26 779	16 587	15 342						
Street and door-to-door sales workers	130	40	20	15	21	14	5 424	5 037	5 152	4 796	31	31	213	182						
News vendors	63	18	3	—	—	—	613	514	562	469	—	—	—	—	—					
Sales related occupations	38	29	20	12	2	—	1 823	1 632	1 733	1 561	33	30	57	41						
Demonstrators, promoters and models, sales	26	20	—	—	2	—	463	414	438	389	19	19	6	6						
Auctioneers	5	5	8	—	—	—	132	116	116	106	3	3	13	6						
Sales support occupations, n.e.c.	7	4	12	12	—	—	1 228	1 103	1 179	1 066	11	8	38	29						
Administrative support occupations, including clerical	31 121	22 212	7 325	5 969	4 348	4 018	376 043	307 759	328 837	270 242	21 786	17 468	25 420	20 029						
Supervisors, administrative support occupations	1 363	550	210	122	65	43	16 221	18 938	22 344	16 157	871	1 953	2 004	1 454						
Supervisors, general office	96	413	165	109	48	34	17 041	13 431	14 218	11 252	1 409	1 091	2 004	1 454						
Supervisors, computer equipment operators	29	—	—	—	—	—	599	167	431	133	27	15	71	69						
Supervisors, financial records processing	144	94	8	—	17	11	4 954	3 867	4 507	3 522	124	98	323	247						
Other communications operators	—	—	—	—	—	—	128	114	113	99	—	—	—	—	—					
Supervisors, distribution, scheduling, and adjusting clerks	222	43	34	13	—	—	3 549	1 352	3 077	1 151	312	148	15	15						
Computer equipment operators	326	195	50	38	32	32	6 608	4 140	5 992	3 720	138	112	478	308						
Peripheral equipment operators	298	183	50	38	32	32	6 186	3 876	5 612	3 481	138	112	436	283						
Peripheral equipment operators	28	12	—	—	—	—	422	264	380	239	—	—	42	25						

Employed persons 16 years and over—Con.

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Retail trade—Con																	
General merchandise stores																	
Hardware stores			Retail nurseries and garden stores			Mobile home dealers			Total			Department stores		Variety stores		Miscellaneous general merchandise stores	
Total	Female		Total	Female		Total	Female		Total	Female		Total	Female		Total	Female	
Employed persons 16 years and over—Con.																	
Technical, sales, and administrative support occupations—Con.																	
Administrative support occupations, including clerical—Con.																	
Secretaries, stenographers, and typists																	
3 981	3 880		1 748	1 712		2 179	2 130		31 979	31 583		27 078	26 729		2 245	2 218	
3 647	3 584		1 663	1 634		2 134	2 090		26 176	25 940		22 121	21 910		2 071	2 009	
28	28					45	40		343	293		285	235		25	25	
306	268		85	78		186	166		5 460	5 350		4 672	4 584		199	184	
353	325		154	138					15 923	15 140		14 960	14 240		312	300	
64	51		11	11		3	3		9 630	9 073		9 376	8 829		54	54	
Information clerks																	
—	—		—	—		—	—		298	244		231	193		7	7	
—	—		—	—		—	—		4 038	3 956		3 506	3 452		219	207	
225	223		96	89		169	161		1 957	1 867		1 847	1 786		32	32	
64	51		47	38		14	2		31 518	27 480		27 416	24 155		1 905	1 721	
Records processing occupations, except financial																	
1 500	793		317	241		41	17		1 192	1 054		1 038	905		117	112	
39	24		7	7		—	—		1 564	1 474		1 474	1 380		—	—	
21	21		3	—		—	—		21 896	18 865		18 991	16 437		1 517	1 345	
1 193	517		223	164		18	2		2 282	2 196		1 909	1 848		58	51	
Order clerks																	
29	29		—	—		5	5		35	35		36	36		4	4	
11	2		14	14		—	—		3 134	2 833		2 670	2 416		190	190	
184	177		70	56		10	10		1 395	1 215		1 298	1 133		19	19	
23	23		—	—		8	—		58 193	51 228		51 228	48 805		4 958	4 747	
Financial records processing occupations																	
12 247	11 425		2 944	2 743		1 189	1 152		46 863	44 815		38 537	36 834		4 069	3 914	
11 525	10 925		2 822	2 639		1 189	1 152		4 393	4 276		3 847	3 733		331	323	
124	124		49	49		—	—		4 942	4 766		4 413	4 254		319	319	
228	196		30	30		—	—		4 412	3 929		4 019	3 600		225	177	
356	166		37	19		—	—		454	426		412	384		14	14	
Billing, posting, and calculating machine operators																	
14	14		6	6		—	—		884	789		789	638		22	16	
23	23		—	—		—	—		172	116		158	116		6	—	
Duplicating, mail, and other office machine operators																	
5	5		—	—		—	—		70	42		65	42		—	—	
11	11		—	—		—	—		642	549		566	480		16	16	
Mail preparing and paper handling machine operators																	
99	99		11	11		—	—		8 844	8 690		8 429	8 264		46	46	
99	99		11	11		—	—		8 807	8 646		8 372	8 220		46	46	
Communications equipment operators																	
99	99		—	—		—	—		52	39		52	39		—	—	
Telephone operators																	
—	—		—	—		—	—		5	5		5	5		—	—	
Communications equipment operators, n.e.c.																	
302	116		59	11		14	—		3 522	2 198		2 996	1 869		203	116	
Mail and message distributing occupations																	
—	—		—	—		—	—		—	—		—	—		—	—	
Postal clerks, except mail carriers																	
250	108		31	11		8	—		3 020	2 082		2 614	1 778		165	109	
52	8		28	—		6	—		502	116		382	91		38	7	
Messengers																	
6 144	1 692		887	246		103	8		99 408	86 664		51 817	51 817		5 765	2 773	
Material recording, scheduling, and distributing clerks																	
45	6		18	14		24	—		937	614		869	585		—	—	
611	232		118	54		22	1		4 806	4 039		3 723	3 113		648	600	
2 066	446		235	48		21	—		30 846	14 627		27 599	13 145		1 206	541	
2 882	723		383	70		9	—		38 344	17 117		31 600	14 439		3 401	1 193	
Stock and inventory clerks																	
—	—		—	—		—	—		—	—		—	—		—	—	
Meter readers																	
138	61		34	15		—	—		1 692	1 143		1 549	1 059		59	22	
—	—		—	—		—	—		—	—		—	—		—	—	
—	—		—	—		—	—		—	—		—	—		—	—	
302	166		92	45		21	7		11 083	9 753		10 181	8 960		276	248	
Expeditors																	
Material recording, scheduling, and distributing clerks, n.e.c.																	
100	58		7	—		6	—		11 625	10 956		11 080	10 477		163	157	
Adjusters and investigators																	
200	95		90	31		39	39		19 123	16 478		18 360	15 799		274	257	
Insurance adjusters, examiners, and investigators																	
—	—		—	—		—	—		—	—		—	—		—	—	
133	64		82	23		33	33		11 779	10 216		11 247	9 744		235	223	
12	3		—	—		—	—		142	154		154	142		—	—	
55	28		8	8		6	6		7 190	6 120		6 959	5 913		39	34	
Bill and account collectors																	
Miscellaneous administrative support occupations																	
4 583	3 019		855	676		520	429		70 929	65 712		62 579	58 069		4 047	3 807	
2 657	2 657		792	616		428	370		53 759	50 099		47 161	44 036		3 406	3 227	
General office clerks																	
—	—		—	—		—	—		—	—		—	—		—	—	
9	9		—	—		—	—		187	154		133	105		7	7	
328	287		36	36		8	8		10 157	9 747		9 113	8 741		373	354	
34	22		17	15		—	—		3 423	3 130		3 140	2 897		59	53	
15	8		—	—		—	—		46	46		46	46		—	—	
Teachers' aides																	
Administrative support occupations, n.e.c.	51		10	9		84	51		3 357	2 536		2 986	2 244		20	166	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

Retail trade—Con.													
General merchandise stores													
Hardware stores		Retail nurseries and garden stores		Mobile home dealers		Total		Department stores		Variety stores		Miscellaneous general merchandise stores	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
Service occupations	377	962	216	1 294	653	115 178	62 519	100 256	53 547	9 135	6 190	5 787	2 782
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	136	59	8	66	—	25 797	12 338	24 320	11 808	474	129	1 003	40
Supervisors, protective service occupations	28	8	8	—	—	1 547	388	1 458	376	15	—	74	12
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	24	—	24	—	—	—	—	—
Supervisors, police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, guards	28	8	8	—	—	1 523	388	1 434	376	15	—	74	12
Firefighting and fire prevention occupations	—	—	—	—	—	39	11	39	11	—	—	—	—
Fire inspection and fire prevention occupations	—	—	—	—	—	23	11	23	11	—	—	—	—
Firefighting occupations	—	—	—	—	—	16	—	16	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—	—	—	—
Guards	108	51	—	66	—	24 211	11 939	22 893	11 421	459	129	929	389
Crossing guards	—	—	—	—	—	17	—	12	—	—	—	5	—
Guards and police, except public service	108	48	—	66	—	24 077	11 863	22 714	11 360	454	124	909	379
Protective service occupations, n.e.c.	—	3	—	—	—	117	59	97	49	5	5	15	5
Service occupations, except protective and household food preparation and service occupations	1 547	903	208	1 228	653	89 381	50 181	75 936	41 739	8 661	5 761	4 784	2 381
Supervisors, food preparation and service occupations	79	17	6	—	—	43 070	35 409	34 379	28 032	6 668	5 062	2 023	1 615
Barbers	7	—	—	—	—	2 003	1 689	1 674	1 415	227	199	102	75
Waiters and waitresses	29	—	—	—	—	248	129	194	105	5	—	49	24
Cooks, except short order	11	11	6	—	—	16 879	16 207	12 919	12 344	3 620	3 544	340	319
Short-order cooks	—	—	—	—	—	11 307	8 972	9 280	7 247	1 296	1 102	731	623
Food counter, fountain and related occupations	9	—	—	—	—	1 357	1 084	1 063	851	174	142	120	91
Kitchen workers, food preparation	—	—	—	—	—	1 768	1 582	1 305	1 150	349	318	114	114
Kitchen workers, waitresses' assistants	2	—	—	—	—	1 142	1 063	965	916	51	41	126	106
Waiters and waitresses	21	7	6	—	—	2 426	1 336	2 016	1 143	280	108	130	85
Miscellaneous food preparation occupations	—	—	—	—	—	5 940	3 347	4 963	2 861	666	308	311	178
Health service occupations	7	—	—	4	—	531	450	493	419	28	21	10	10
Dental assistants	—	—	—	—	—	9	4	9	4	—	—	—	—
Health aides, except nursing	5	—	—	—	—	409	380	384	355	21	—	4	4
Nursing aides, orderlies, and attendants	2	—	—	—	—	113	66	100	60	7	—	6	6
Cleaning and building service occupations, except household	1 416	279	144	1 194	623	37 027	6 875	32 814	6 184	1 906	219	2 307	472
Supervisors, cleaning and building service workers	11	4	—	—	—	1 575	1 118	1 439	89	20	2	116	27
Maid and housemen	206	41	18	152	124	4 056	1 663	3 672	1 544	236	52	148	67
Janitors and cleaners	1 176	232	126	1 042	499	30 624	4 813	26 955	4 281	1 650	165	2 019	367
Elevator operators	16	6	4	—	—	754	281	730	270	—	—	24	11
Pest control occupations	7	—	—	—	—	18	—	18	—	—	—	—	—
Personal service occupations	45	12	239	30	30	8 753	7 447	8 250	7 104	59	59	444	284
Supervisors, personal service occupations	8	—	—	—	—	222	144	211	144	—	—	11	—
Barbers	—	—	—	—	—	148	5	44	5	—	—	—	—
Hairstylists and cosmetologists	2	—	—	—	—	5 368	4 767	5 162	4 592	31	31	175	144
Attendants, amusement and recreation facilities	—	—	—	—	—	130	116	94	80	—	—	36	36
Guides	2	3	—	—	—	6	6	6	6	—	—	—	—
Ushers	—	—	—	—	—	—	—	—	—	—	—	—	—
Public transportation attendants	—	—	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	—	—	21	18	21	18	—	—	—	—
Welfare service aides	—	—	—	—	—	—	—	—	—	—	—	—	—
Child care workers, except private household	30	7	51	—	—	176	150	176	150	—	—	—	—
Personal service occupations, n.e.c.	3	7	7	30	30	2 658	2 224	2 512	2 092	28	28	118	104
Farming, forestry, and fishing occupations	229	3 450	869	85	—	400	136	309	88	47	32	44	16
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	12	952	443	—	—	17	9	8	—	9	9	—	—
Related agricultural occupations	210	2 465	423	78	—	350	111	273	77	38	23	39	11
Supervisors, related agricultural occupations	—	22	—	—	—	6	—	6	—	—	—	—	—
Groundskeepers and gardeners, except farm	186	31	423	78	—	254	31	208	20	7	—	39	11
Animal caretakers, except farm	24	5	—	—	—	90	80	59	57	31	23	—	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Retail trade—Con					
	Hardware stores		Retail nurseries and garden stores		Mobile home dealers	
	Total	Female	Total	Female	Total	Female
United States	General merchandise stores					
	Total		Department stores		Variety stores	
	Total	Female	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con						
Forestry and logging occupations	7	7				
Supervisors, forestry and logging workers	7	7				
Electricians, forestry and logging workers	—	—				
Timber cutting and logging occupations	—	—				
Fishers, hunters, and trappers	—	—				
Captains and other officers, fishing vessels	—	—				
Fishers	—	—				
Hunters and trappers	—	—				
Precision production, craft, and repair occupations	8 502	509	5 393	197	4 746	102
Mechanics and repairers	3 860	28	3 481	28	3 727	39
Supervisors, mechanics and repairers	115	—	108	—	62	—
Mechanics and repairers, except supervisors	3 745	28	3 373	28	3 665	39
Vehicle and mobile equipment mechanics and repairers	1 387	2	2 522	26	792	18
Automobile mechanics	213	2	206	2	643	14
Bus, truck, and stationary engine mechanics	73	—	66	—	36	—
Aircraft engine mechanics	—	—	—	—	8	—
Small engine repairers	602	—	2 115	24	86	—
Automobile body and related repairers	7	—	10	—	86	4
Aircraft mechanics, except engine	—	—	—	—	—	—
Heavy equipment mechanics	18	—	44	—	8	—
Farm equipment mechanics	474	—	81	—	11	—
Industrial machinery repairers	169	10	145	—	88	—
Machinery maintenance occupations	11	—	—	—	—	—
Electrical and electronic equipment repairers	825	5	23	—	31	1
Electronic repairers, communications and industrial equipment	232	—	2	—	14	—
Data processing equipment repairers	—	—	—	—	—	—
Household appliance and power tool repairers	583	—	16	—	16	—
Telephone line installers and repairers	—	—	—	—	—	—
Telephone installers and repairers	5	5	2	—	—	—
Miscellaneous electrical and electronic equipment repairers	5	—	3	—	1	1
Heating, air conditioning, and refrigeration mechanics	136	—	—	—	41	—
Miscellaneous mechanics and repairers	1 217	11	683	2	2 713	20
Camera, watch, and musical instrument repairers	226	—	9	—	—	—
Locksmiths and safe repairers	—	—	—	—	—	—
Office machine repairers	16	11	7	—	—	—
Mechanical controls and valve repairers	2	—	—	—	—	—
Elevator installers and repairers	18	—	2	—	—	—
Millwrights	630	—	378	—	2 606	16
Specified mechanics and repairers, n.e.c.	318	—	287	2	107	4
Not specified mechanics and repairers	—	—	—	—	—	—
Construction trades	2 006	37	502	6	607	27
Supervisors, construction occupations	60	—	27	—	54	8
Supervisors, brickmasons, stonemasons, and tile setters	12	—	—	—	6	—
Supervisors, carpenters and related workers	7	—	—	—	—	—
Supervisors, electricians and power transmission installers	—	—	—	—	—	—
Supervisors, painters, paperhangers, and plasterers	—	—	—	—	—	—
Supervisors, plumbers, pipefitters, and steamfitters	—	—	—	—	—	—
Supervisors, n.e.c.	34	—	27	—	48	8
Construction trades, except supervisors	1 946	37	475	6	553	19
Brickmasons and stonemasons	2	—	—	—	—	—
Tile setters and roofers	18	—	—	—	—	—
Carpenters	97	—	14	—	80	6
Painters	555	24	108	—	355	13
Drayage installers	—	—	—	—	—	—
Electricians	243	—	7	—	37	—
Electrical power installers and repairers	2	—	—	—	—	—
Painters, construction and maintenance	85	9	28	6	30	—
Paperhangers	12	4	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Retail trade—Con.																
Hardware stores			Retail nurseries and garden stores			Mobile home dealers			General merchandise stores							
									Total		Department stores		Variety stores		Miscellaneous general merchandise stores	
Total	Female		Total	Female		Total	Female		Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.																
Precision production, craft, and repair occupations—Con.																
Construction trades—Con.																
675	—	168	—	—	—	30	—	15	6	158	—	6	—	12	6	9
8	—	—	—	—	—	—	—	11	—	11	—	—	—	—	—	—
138	—	—	—	—	—	2	—	5	24	24	—	11	—	—	6	—
12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
14	—	—	—	—	—	—	—	—	29	29	—	—	—	—	—	—
21	—	—	—	—	—	—	—	—	2	2	—	—	—	—	—	—
6	—	7	—	—	—	—	—	5	5	5	—	5	—	—	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
56	—	143	—	—	—	19	—	101	689	633	—	90	—	13	43	6
11	—	—	—	—	—	—	—	11	21	21	—	11	—	5	—	—
9	—	—	—	—	—	—	—	6	16	16	—	6	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	1	—	—	—	1	—	—	—	—
—	—	—	—	—	—	—	—	4	—	4	—	4	—	—	—	—
2 625	444	1 410	—	163	—	412	36	28 435	47 789	40 674	24 522	—	2 761	1 597	4 354	2 316
2 278	391	1 319	—	139	—	339	18	17 278	30 759	25 097	14 090	—	2 586	1 525	3 076	1 663
235	12	37	—	10	—	17	—	255	579	402	170	—	19	5	158	80
47	—	—	—	—	—	—	—	24	69	56	17	—	5	5	8	2
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
80	5	16	—	—	—	12	—	25	132	116	25	—	14	2	2	—
6	—	6	—	—	—	—	—	—	10	10	—	—	—	—	—	—
42	—	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	11	—	—	—	—	—	—	11	—
—	—	—	—	—	—	—	—	14	34	26	6	—	—	—	8	—
—	—	—	—	—	—	—	—	67	149	71	40	—	—	—	78	27
7	7	5	—	—	—	—	—	120	145	94	77	—	—	—	51	43
53	—	10	—	10	—	5	—	5	29	29	5	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22	9	—	—	—	—	5	5	29	908	862	27	—	6	—	40	2
—	—	—	—	—	—	—	—	6	6	6	6	—	—	—	—	—
4	—	—	—	—	—	—	—	10	409	383	10	—	—	—	26	—
9	9	—	—	—	—	—	—	6	475	460	4	—	6	—	9	2
—	—	—	—	—	—	—	—	7	—	—	—	—	—	—	—	—
9	9	—	—	—	—	5	5	18	13	13	7	—	—	—	5	—
26	21	25	—	10	—	22	5	9 838	11 556	9 414	31	31	31	31	446	393
26	21	10	—	10	—	13	6	8 198	8 198	7 902	28	28	28	28	276	268
—	—	6	—	—	—	—	—	1	3 176	3 048	1	3	3	3	125	119
—	—	—	—	—	—	9	6	22	144	144	22	—	—	—	13	—
—	—	7	—	—	—	—	—	8	153	127	8	—	—	—	26	—
—	—	2	—	—	—	—	—	5	5	5	5	—	—	—	6	—
—	—	—	—	—	—	—	—	52	70	64	46	—	—	—	6	—
34	—	10	—	4	—	—	—	251	452	326	196	—	16	5	110	50
7	—	—	—	—	—	—	—	7	—	—	—	—	—	—	7	7
—	—	—	—	—	—	—	—	14	32	21	14	—	11	—	—	—
—	—	—	—	—	—	—	—	205	343	267	157	—	5	5	91	43
7	—	4	—	4	—	—	—	18	18	18	18	—	—	—	—	—
—	—	—	—	—	—	—	—	7	12	7	7	—	—	—	5	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20	—	6	—	—	—	—	—	13	—	6	—	—	—	—	7	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16	11	12	—	—	—	14	—	701	2 002	1 466	568	—	76	31	460	102
16	11	12	—	—	—	14	—	142	1 046	629	76	—	76	—	417	66
—	—	—	—	—	—	—	—	529	906	793	468	—	31	31	37	30
—	—	—	—	—	—	—	—	30	44	24	51	—	—	—	6	6
—	—	—	—	—	—	15	7	243	207	207	51	4	4	4	32	15
—	—	—	—	—	—	15	7	66	243	207	51	—	—	—	32	15

Employed persons 16 years and over—Con.
Precision production, craft, and repair occupations—Con.
Construction trades—Con.
Construction trades, except supervisors—Con.
Plasterers
Plumbers, pipefitters, and steamfitters
Concrete and terrazzo finishers
Glaziers
Insulation workers
Paving, surfacing, and tamping equipment operators
Roofers
Sheetmetal duct installers
Structural metal workers
Drillers, earth
Construction trades, n.e.c.
Extractive occupations
Supervisors, extractive occupations
Drillers, oil well
Explosives workers
Mining machine operators
Mining occupations, n.e.c.
Precision production occupations
Supervisors, production occupations
Precision metalworking occupations
Tool and die makers
Precision assemblers, metal
Machinists
Boilermakers
Precision grinders, filers, and tool sharpeners
Patternmakers and model makers, metal
Lay-out workers
Precision stones and metals workers (jewelers)
Engravers, metal
Sheet metal workers
Miscellaneous precision metal workers
Precision woodworking occupations
Pottermakers and model makers, wood
Cabinet makers and bench carpenters
Furniture and wood finishers
Miscellaneous precision woodworkers
Precision textile, apparel, and furnishings machine workers
Dressmakers
Tailors
Upholsterers
Shoe repairers
Apparel and fabric patternmakers
Miscellaneous precision apparel and fabric workers
Precision workers, assorted materials
Road molders and shapers, except jewelers
Pottermakers, lay-out workers, and cutters
Optical goods workers
Dental laboratory and medical appliance technicians
Bookbinders
Electrical and electronic equipment assemblers
Miscellaneous precision workers, n.e.c.
Precision food production occupations
Butchers and meat cutters
Bakers
Food batchmakers
Precision inspectors, testers, and related workers
Inspectors, testers, and graders
Adjusters and calibrators

United States

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Retail trade—Con									
	Hardware stores		Retail nurseries and garden stores		Mobile home dealers		General merchandise stores			
	Total	Female	Total	Female	Total	Female	Total	Female	Variety stores	Miscellaneous general merchandise stores
Precision production, craft, and repair occupations—Con										
Precision production occupations—Con										
Plant and system operators	14	—	7	—	—	—	813	17	—	—
Water and sewage treatment plant operators	6	—	—	—	—	—	—	—	—	—
Power plant operators	8	—	—	—	—	—	789	17	—	—
Stationary engineers	—	—	—	—	—	—	18	—	—	—
Miscellaneous plant and system operators	—	—	—	—	—	—	—	—	—	—
Operators, fabricators, and laborers	15 674	1 588	10 378	1 415	3 411	127	125 467	40 191	—	—
Machine operators, assemblers, and inspectors	1 652	300	866	164	927	25	10 916	6 661	—	—
Machine operators and tenders, except precision	993	209	627	119	190	5	7 070	4 597	—	—
Metalworking and plastic working machine operators	74	14	57	—	12	—	98	42	—	—
Lathe and turning machine set-up operators	—	—	—	—	5	—	21	13	—	—
Lathe and turning machine operators	4	—	—	—	—	—	14	—	—	—
Milling and planing machine operators	15	8	5	—	—	—	5	—	—	—
Punching and stamping press machine operators	—	—	—	—	—	—	14	14	—	—
Rolling machine operators	—	—	—	—	—	—	—	—	—	—
Drilling and boring machine operators	—	—	—	—	—	—	—	—	—	—
Grinding, abrading, buffing, and polishing machine operators	47	6	52	—	—	—	33	9	—	—
Forging machine operators	2	—	—	—	—	—	—	—	—	—
Numerical control machine operators	—	—	—	—	—	—	—	—	—	—
Miscellaneous metal, plastic, stone, and glass working machine operators	6	—	—	—	7	—	13	6	—	—
Fabricating machine operators, n.e.c.	17	3	6	6	—	—	10	4	—	—
Metal and plastic processing machine operators	8	3	6	6	7	—	126	57	—	—
Molding and casting machine operators	9	—	—	—	—	—	80	48	—	—
Metal plating machine operators	—	—	—	—	—	—	13	—	—	—
Heat treating equipment operators	—	—	—	—	—	—	33	9	—	—
Miscellaneous metal and plastic processing machine operators	—	—	—	—	—	—	—	—	—	—
Woodworking machine operators	51	—	8	8	13	—	45	14	—	—
Wood lathe, routing, and planing machine operators	—	—	—	—	—	—	2	—	—	—
Sawing machine operators	32	—	2	2	13	—	4	4	—	—
Shaping and joining machine operators	5	—	—	—	—	—	16	10	—	—
Nailing and tacking machine operators	—	—	6	6	—	—	—	—	—	—
Miscellaneous woodworking machine operators	14	—	—	—	—	—	23	—	—	—
Printing machine operators	91	27	23	12	2	—	1 204	595	—	—
Printing machine operators	87	27	12	7	2	—	940	418	—	—
Photoengravers and lithographers	4	—	—	—	—	—	28	14	—	—
Type setters and compositors	—	—	—	—	—	—	172	124	—	—
Miscellaneous printing machine operators	—	—	11	5	—	—	64	39	—	—
Textile, apparel, and furnishings machine operators	21	—	14	7	5	5	2 123	1 889	—	—
Winding and twisting machine operators	—	—	—	—	—	—	—	—	—	—
Knitting, looping, tapping, and weaving machine operators	—	—	—	—	—	—	13	13	—	—
Textile cutting machine operators	—	—	—	—	—	—	22	8	—	—
Textile sewing machine operators	—	—	7	7	—	—	1 642	1 581	—	—
Shoe machine operators	—	—	—	—	—	—	61	45	—	—
Pressing machine operators	—	—	—	—	—	—	195	118	—	—
Laundry and dry cleaning machine operators	—	—	—	—	—	—	150	96	—	—
Miscellaneous textile machine operators	21	—	7	—	5	5	40	28	—	—
Machine operators, assorted materials	739	165	519	86	151	—	3 464	1 996	—	—
Cementing and gluing machine operators	12	6	2	—	—	—	24	12	—	—
Packaging and filling machine operators	15	9	21	10	—	—	144	119	—	—
Extruding and forming machine operators	—	—	—	—	—	—	—	—	—	—
Mixing and blending machine operators	39	8	145	2	—	—	110	79	—	—
Separating, filtering, and clarifying machine operators	46	25	—	—	—	—	—	—	—	—
Compressing and compacting machine operators	—	—	—	—	—	—	—	—	—	—
Painting and paint spraying machine operators	44	—	15	4	13	—	46	35	—	—
Roasting and baking machine operators, food	—	—	—	—	—	—	99	11	—	—
Washing, cleaning, and pickling machine operators	—	—	—	—	—	—	15	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Retail trade—Con.											
United States			General merchandise stores								
Hardware stores	Retail nurseries and garden stores		Mobile home dealers		Total		Department stores		Variety stores		Miscellaneous general merchandise stores
Total	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total
Employed persons 16 years and over—Con.											
Operators, fabricators, and laborers—Con.											
Machine operators, assemblers, and inspectors—Con.											
Machine operators and tenders, except precision—Con.											
Machine operators, assorted materials—Con.											
Folding machine operators	20	—	—	—	34	20	26	20	8	—	—
Furnace, kiln, and oven operators, except food	11	—	—	—	95	—	82	—	—	—	13
Crushing and grinding machine operators	107	22	38	—	35	14	35	376	59	57	8
Slicing and cutting machine operators	—	—	50	22	598	433	531	—	—	—	—
Molten picture projectionists	—	—	—	—	—	—	—	—	—	—	—
Photographic process machine operators	—	—	—	—	240	170	230	160	2	2	8
Miscellaneous machine operators, n.e.c.	117	40	88	27	728	363	558	277	52	44	42
Machine operators, not specified	328	55	160	21	1 296	740	1 103	634	59	38	68
Fabricators, assemblers, and hand working occupations											
Welders and cutters	579	58	193	24	2 304	1 113	1 962	970	151	80	63
Solders and brazers	206	3	54	—	161	7	106	—	19	7	36
Assemblers	346	44	124	9	1 093	364	899	287	93	49	101
Hand cutting and trimming occupations	16	—	3	—	107	16	100	14	2	2	5
Hand molding, casting, and forming occupations	—	—	—	—	—	—	—	—	—	—	—
Hand painting, coating, and decorating occupations	11	11	12	12	813	653	751	611	28	14	34
Hand engraving and printing occupations	—	—	—	—	44	9	44	9	—	—	—
Hand grinding and polishing occupations	—	—	—	—	9	9	9	9	—	—	—
Miscellaneous hand working occupations	—	—	—	—	77	55	53	—	9	8	15
Production inspectors, testers, samplers, and weighers	80	33	46	21	1 542	951	1 315	815	38	26	189
Production inspectors, checkers, and examiners	31	8	6	—	1 058	684	878	571	24	13	156
Production testers	3	3	4	—	30	5	25	—	—	—	5
Production samplers and weighers	—	—	8	—	4	—	—	—	—	—	4
Graders and sorters, except agricultural	46	22	28	21	450	262	412	244	14	13	24
Transportation and material moving occupations											
Motor vehicle operators	4 570	81	3 767	75	17 260	1 523	13 882	1 188	1 256	111	224
Supervisors, motor vehicle operators	4 128	65	3 497	75	12 079	466	9 717	348	868	16	1 494
Truck drivers, heavy	23	—	8	—	241	49	216	49	—	—	25
Truck drivers, light	2 012	37	2 309	31	6 214	139	4 676	94	699	11	839
Driver-sales workers	1 818	26	1 057	44	4 694	197	4 150	170	144	5	400
Bus drivers	201	2	87	—	361	52	218	21	17	—	126
Taxicab drivers and chauffeurs	2	—	—	—	33	8	17	—	—	—	16
Parking lot attendants	61	—	36	—	276	7	187	—	8	—	8
Motor transportation occupations, n.e.c.	11	—	—	—	243	14	236	14	—	—	7
Rail transportation occupations	—	—	—	—	17	—	17	—	—	—	—
Railroad conductors and yardmasters	—	—	—	—	10	—	—	—	—	—	10
Locomotive operating occupations	—	—	—	—	3	—	—	—	—	—	3
Railroad brake, signal, and switch operators	—	—	—	—	5	—	—	—	—	—	5
Rail vehicle operators, n.e.c.	—	—	—	—	—	—	—	—	—	—	—
Water transportation occupations											
Ship captains and mates, except fishing boats	12	12	13	—	21	8	19	6	2	2	—
Sailors and deckhands	12	—	—	—	2	—	2	—	—	—	—
Marine engineers	—	—	—	—	2	—	—	—	—	—	—
Bridge, lock, and lighthouse tenders	—	—	13	—	6	6	6	—	2	—	—
Material moving equipment operators											
Supervisors, material moving equipment operators	430	4	257	—	5 150	1 049	4 146	834	386	93	618
Operating engineers	52	21	16	—	216	54	158	27	5	5	53
Longshore equipment operators	2	—	16	—	42	—	42	—	—	—	—
Hoist and winch operators	—	—	—	—	—	—	—	—	—	—	—
Crane and tower operators	3	—	—	—	15	—	15	—	—	—	—
Excavating and loading machine operators	11	—	7	—	7	—	—	—	—	—	—
Grader, dozer, and scraper operators	28	—	19	—	14	—	6	—	—	—	8
Industrial truck and tractor equipment operators	2	—	10	—	8	—	8	—	—	—	—
Miscellaneous material moving equipment operators	308	4	154	—	3 410	349	2 627	250	309	36	474
	24	—	30	—	1 438	646	1 283	557	72	52	83

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con	
Handlers, equipment cleaners, helpers, and	
Supervisors, cleaners, equipment cleaners, and laborers,	
n.e.c.	
Helpers, mechanics and repairers	
Helpers, construction and extractive occupations	
Helpers, construction trades	
Helpers, surveyor	
Helpers, extractive occupations	
Construction laborers	
Production helpers	
Freight, stock, and material handlers	
Garbage collectors	
Slevedores	
Stock handlers and baggers	
Machine feeders and offbearers	
Freight, stock, and material handlers, n.e.c.	
Garage and service station related occupations	
Vehicle washers and equipment cleaners	
Hand packers and packagers	
Laborers, except construction	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Retail trade—Con.														
United States														
Food stores														
Total			Grocery stores		Dairy products stores		Retail bakeries		Food stores, n.e.c.		Motor vehicle dealers		Auto and home supply stores	
Total	Male	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over														
2 503 595	1 145 676	1 357 919	2 137 219	957 659	52 280	29 284	156 077	91 501	158 019	67 232	887 663	145 164	313 368	59 621
165 896	47 597	143 940	39 105	1 793	3 884	1 793	5 536	2 345	12 536	4 354	99 491	16 460	34 444	4 063
158 314	44 450	137 397	36 450	1 772	3 746	1 772	5 287	2 204	11 884	4 074	97 983	16 095	33 771	3 894
Legislators, chief executives, and general administrators														
public administration														
Administrators and officials, public administration														
Federal														
State														
Local														
Administrators, protective services														
30	—	30	—	—	—	—	—	—	—	—	—	—	—	—
1 486	441	1 263	354	20	31	20	63	14	129	53	5 442	1 192	1 168	418
5 081	1 457	4 261	1 168	17	96	17	209	119	515	153	1 054	200	851	97
Personnel and labor relations managers														
1 487	662	1 413	638	6	14	6	5	—	55	18	90	16	139	7
11 219	2 664	7 794	1 403	205	493	205	956	347	1 976	709	26 524	628	7 806	378
46	9	37	5	—	—	—	—	—	9	4	116	4	26	—
Managers, education and related fields														
Managers, medicine and health														
Managers, properties and real estate														
172	43	164	43	—	—	—	8	—	—	—	859	95	46	7
Postmasters and mail superintendents														
Funeral directors														
5	—	5	—	—	2 760	1 296	3 680	1 578	7 705	2 681	55 883	11 546	20 895	2 248
118 196	31 739	104 051	26 184	—	2 143	1 034	2 899	1 228	5 876	2 131	52 281	11 199	18 537	2 051
102 191	26 697	91 273	22 304	—	617	262	781	350	1 829	550	3 602	347	2 358	197
16 005	5 042	12 778	3 880	—	352	178	366	146	1 495	456	7 989	2 414	2 840	739
20 592	7 435	18 379	6 655	—	116	61	87	48	248	138	4 725	2 052	1 008	420
6 965	3 482	6 514	3 235	—	—	—	—	—	—	—	—	—	—	—
27	18	24	18	—	—	—	—	—	—	—	—	—	—	—
Other financial officers														
253	62	218	51	—	10	—	10	—	25	11	359	44	46	6
152	84	107	52	—	10	10	5	—	30	17	225	30	42	—
3 789	1 408	3 303	1 211	—	143	70	171	42	172	85	623	104	518	47
190	18	149	12	—	—	—	12	—	29	6	—	—	—	—
8 926	2 265	7 818	2 007	—	78	32	75	39	955	187	1 931	177	1 211	266
Buyers, wholesale and retail trade except farm products														
Purchasing agents and buyers, n.e.c.														
76	20	61	14	—	—	—	—	—	15	6	23	—	5	—
Business and promotion agents														
11	—	11	—	—	—	—	—	—	—	—	7	—	2	—
124	44	104	30	—	—	—	6	6	14	8	64	—	—	—
79	34	70	25	5	5	5	—	—	4	4	32	7	8	—
Inspectors and compliance officers, except construction														
Management related occupations, n.e.c.														
7 582	3 147	6 543	2 655	71	138	71	249	141	652	280	1 508	365	673	169
Engineers, architects, and surveyors	1 166	97	976	47	12	12	59	12	119	38	255	22	119	—
Architects	246	15	222	15	—	—	7	—	17	—	22	12	12	—
Engineers	920	82	754	32	12	12	52	12	102	38	217	10	107	—
Aerospace engineers														
2	—	—	—	—	—	—	—	—	2	—	—	—	13	—
Metallurgical and materials engineers														
14	—	14	—	—	—	—	—	—	—	—	—	—	—	—
Mining engineers														
5	—	—	—	—	—	—	—	—	5	—	—	—	2	—
Petroleum engineers														
15	—	15	—	—	—	—	—	—	—	—	—	—	10	—
Chemical engineers														
157	6	117	6	—	—	—	24	—	16	—	15	4	—	—
Nuclear engineers														
Civil engineers														
Agricultural engineers														
72	66	66	—	—	6	—	—	—	—	—	11	—	13	—
Electrical and electronic engineers														
337	76	267	26	—	—	—	20	12	50	38	112	6	44	—
167	—	140	—	—	—	—	8	—	19	—	48	—	12	—
Mechanical engineers														
Marine engineers and naval architects														
151	—	135	—	—	6	—	—	—	10	—	31	—	13	—
Engineers, n.e.c.														
Surveyors and mapping scientists														
617	153	565	139	—	8	—	5	5	39	9	157	34	55	29
340	104	333	99	—	—	—	5	5	22	9	40	28	38	12
221	36	204	27	—	—	—	—	—	17	—	47	—	8	—
Operations and systems researchers and analysts														
36	13	28	13	—	8	—	—	—	—	—	20	6	9	—
Statisticians														
Mathematical scientists, n.e.c.														

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A}

Retail trade—Con.

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

United States	Retail trade—Con.									
	Food stores					Motor vehicle dealers				
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations	1 347 501	848 797	1 167 044	724 827	32 522	21 019	65 598	54 261	82 337	48 690
Technicians and related support occupations	2 802	825	2 525	719	65	45	40	14	172	47
Health technicians and technicians	60	41	34	35	—	—	—	—	6	6
Health laboratory technicians and technicians	19	6	13	—	—	—	—	—	6	6
Dental hygienists	—	—	—	—	—	—	—	—	—	—
Health record technicians and technicians	6	6	6	6	—	—	—	—	—	—
Radiologic technicians	—	—	—	—	—	—	—	—	—	—
Licensed practical nurses	12	12	12	12	—	—	—	—	—	—
Health technicians and technicians, n.e.c.	23	17	23	17	—	—	—	—	23	23
Engineering and related technicians and technicians	813	201	748	169	19	19	7	7	39	6
Electrical and electronic technicians	169	63	158	63	—	—	—	—	11	6
Industrial engineering technicians	150	6	150	6	—	—	—	—	153	13
Mechanical engineering technicians	26	—	26	—	—	—	—	—	13	—
Engineering technicians, n.e.c.	147	54	116	28	19	19	7	7	27	—
Drafting occupations	291	70	275	64	—	—	—	—	5	6
Surveying and mapping technicians	30	8	23	8	—	—	—	—	16	6
Science technicians	219	105	171	95	14	5	—	—	7	4
Biological technicians	100	30	66	20	—	—	—	—	34	5
Chemical technicians	35	35	35	35	—	—	—	—	20	5
Science technicians, n.e.c.	84	40	70	40	—	—	—	—	8	—
Technicians, except health, engineering, and science	1 710	478	1 552	420	32	21	33	7	93	30
Airplane pilots and navigators	45	—	45	—	—	—	—	—	—	—
Air traffic controllers	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators	10	—	5	—	—	—	—	—	—	—
Computer programmers	1 238	332	1 163	306	11	5	25	5	39	16
Tool programmers, numerical control	43	11	34	11	—	—	—	—	9	7
Legal assistants	157	59	141	50	5	—	2	2	7	7
Technicians, n.e.c.	217	76	164	53	16	16	6	—	31	7
Sales occupations	1 148 408	733 839	985 952	622 911	29 464	18 771	60 997	50 707	71 995	41 450
Supervisors and proprietors, sales occupations	307 427	80 467	273 773	67 159	6 576	2 975	9 531	4 387	17 547	5 946
Salaried	215 395	51 515	194 834	42 221	4 356	2 149	6 936	3 428	9 269	3 717
Self-employed	92 032	28 952	78 939	24 938	2 220	826	2 595	959	8 278	2 225
Sales representatives, finance and business services	625	217	579	171	8	8	13	13	25	25
Insurance sales occupations	—	—	—	—	—	—	—	—	—	—
Real estate sales occupations	282	76	262	56	—	—	13	13	7	7
Securities and financial services sales occupations	—	—	—	—	—	—	—	—	—	—
Advertising and related sales occupations	343	141	317	115	8	8	—	—	18	18
Sales occupations, other business services	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	10	4	6	—	—	—	4	4	—	—
Sales engineers	10	4	6	—	—	—	4	4	—	—
Sales representatives, mining, manufacturing, and wholesale	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services	838 815	651 762	710 203	554 312	22 849	15 764	51 429	46 283	54 334	35 403
Sales workers, commodities	107 272	78 172	1 349	532	18 265	11 977	43 691	39 084	43 967	26 579
Sales counter clerks	2 011	1 298	1 186	647	361	255	315	297	149	99
Cashiers	728 678	571 776	707 173	552 826	4 147	3 479	7 410	6 891	9 948	8 580
Street and door-to-door sales workers	305	378	259	190	57	46	5	5	225	136
News vendors	—	—	236	117	19	7	5	—	45	9
Sales related occupations	1 521	1 389	1 391	1 249	31	24	20	20	89	76
Demonstrators, promoters and models, sales	1 346	1 280	1 221	1 152	25	18	14	14	86	76
Auctioneers	5	—	5	—	—	—	—	—	—	—
Sales support occupations, n.e.c.	180	129	165	117	6	6	6	6	—	—
Administrative support occupations, including clerical	196 291	114 133	178 567	101 197	2 993	2 203	4 561	3 540	10 170	7 193
Supervisors, administrative support occupations	16 264	7 774	15 047	7 075	199	139	390	244	628	316
Supervisors, general office	13 907	6 886	12 956	6 281	179	119	281	217	491	269
Supervisors, computer equipment operators	217	61	198	49	10	10	2	2	7	7
Supervisors, financial records processing	1 105	711	1 011	643	10	10	36	25	48	33
Chief communications operators	31	18	18	7	—	—	7	—	6	6
Supervisors; distribution, scheduling, and adjusting clerks	1 004	109	864	95	—	—	64	—	76	14
Computer equipment operators	3 013	1 463	2 757	1 495	30	18	61	43	165	107
Computer operators	2 806	1 523	2 586	1 383	14	2	54	38	152	100
Peripheral equipment operators	207	140	171	112	16	16	7	5	13	7

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

United States

Retail Trade—Con

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.

Administrative support occupations, including clerical—Con

Secretaries, stenographers, and typists—Con

Total		Grocery stores		Dairy products stores		Retail bakeries		Food stores, n.e.c.		Motor vehicle dealers		Auto and home supply stores	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
16 211	15 763	13 935	13 562	340	320	509	475	1 427	1 406	25 539	25 099	6 876	6 782
14 552	14 308	12 549	12 280	307	287	465	431	1 331	1 310	23 036	22 677	6 499	6 405
52	40	2	2	2	2	—	—	10	10	86	71	—	—
1 507	1 426	1 346	1 265	31	31	44	44	86	86	2 414	2 351	372	372
1 779	1 562	1 461	1 273	69	61	78	78	171	150	4 152	3 928	792	686
187	120	92	—	—	—	9	9	33	19	56	34	208	179
—	—	—	—	—	—	—	—	—	—	—	—	—	—
95	50	86	48	—	—	—	—	9	2	29	11	20	6
1 277	1 208	1 073	1 004	56	56	69	69	79	79	3 679	3 572	454	435
220	184	137	129	13	5	5	—	50	50	388	311	110	66
13 520	6 418	12 388	5 988	127	87	281	245	724	498	3 645	2 503	1 818	892
314	219	312	219	2	—	—	—	—	—	16	11	21	8
14	14	8	8	—	—	—	—	6	6	—	—	—	—
11 814	4 948	10 838	4 251	120	87	240	204	616	406	1 525	543	1 369	487
445	438	432	425	—	—	13	13	—	—	112	103	44	29
42	16	42	16	—	—	23	23	102	86	1 897	1 794	370	354
777	669	647	560	5	—	5	—	—	—	72	42	14	14
114	114	109	109	—	—	—	—	—	—	—	—	—	—
50 305	45 709	45 064	856	784	1 354	1 294	3 031	2 766	39 937	37 462	19 733	18 536	
44 671	41 594	39 956	37 216	740	677	1 184	1 131	2 791	2 570	36 487	34 418	18 862	17 811
1 811	1 749	1 556	1 502	57	57	103	103	95	87	1 055	1 005	232	204
826	682	683	556	41	41	27	27	75	58	1 901	1 827	425	382
2 675	1 442	2 582	1 378	18	9	23	16	52	39	134	81	150	94
322	242	287	213	—	—	17	17	18	12	160	131	64	45
125	102	125	102	—	—	—	—	—	—	22	22	31	23
36	29	36	29	—	—	—	—	—	—	—	—	12	4
29	19	29	19	—	—	—	—	—	—	—	—	—	—
60	54	60	54	—	—	—	—	—	—	22	22	19	19
517	511	459	453	19	19	27	27	12	12	2 723	2 669	158	158
511	505	453	447	19	19	27	27	12	12	2 707	2 661	154	154
6	6	6	6	—	—	—	—	—	—	8	8	4	4
—	—	—	—	—	—	—	—	—	—	8	8	—	—
1 699	577	1 267	495	67	11	104	20	261	51	922	183	800	247
—	—	—	—	—	—	—	—	—	—	—	—	—	—
1 077	438	821	370	37	11	53	6	166	51	265	95	487	156
622	139	446	125	30	51	51	14	95	—	657	88	313	91
61 362	12 666	57 885	11 467	540	232	1 003	404	934	563	7 975	2 027	7 152	2 471
487	63	409	42	12	34	32	13	32	8	1 919	343	143	36
5 938	2 857	5 463	2 553	100	79	200	156	175	69	1 559	126	298	107
9 386	1 176	8 368	1 002	139	16	445	55	434	103	1 457	192	1 546	238
40 420	5 657	39 190	5 343	191	56	160	879	191	3 419	3 419	1 234	4 708	1 903
1 778	920	1 377	726	21	14	111	79	269	101	19	2	141	12
35	13	35	13	—	—	—	—	—	—	31	12	29	9
2 542	1 522	2 325	1 383	71	61	37	23	109	55	515	94	218	104
n.e.c.	n.e.c.	n.e.c.	n.e.c.	n.e.c.	n.e.c.	n.e.c.	n.e.c.	n.e.c.	n.e.c.	n.e.c.	n.e.c.	n.e.c.	n.e.c.
1 776	458	718	405	6	6	16	11	36	36	1 998	760	992	573
711	804	1 559	722	36	7	6	—	110	75	—	24	69	62
—	—	—	—	—	—	—	—	—	—	—	—	—	—
1 252	547	1 133	485	18	2	6	—	95	60	1 526	581	516	261
163	110	163	110	—	—	—	—	—	—	45	45	17	17
296	147	263	127	18	5	—	—	—	15	427	134	459	295
29 785	20 584	26 620	18 100	710	525	748	710	1 707	1 249	16 561	13 569	5 506	4 374
24 057	16 745	21 222	14 563	624	439	684	646	1 527	1 097	12 108	10 455	4 540	3 571
—	—	—	—	—	—	—	—	—	—	—	—	—	—
21	21	21	21	—	—	—	—	—	—	11	11	—	—
2 956	2 806	2 727	2 577	83	83	57	57	89	89	1 041	974	601	601
387	256	363	238	—	—	5	5	19	13	290	272	171	171
41	23	36	23	—	—	—	—	5	4	6	6	8	8
2 323	733	2 251	678	3	3	2	2	67	50	3 105	1 901	137	49
Administrative support occupations, n.e.c.	Administrative support occupations, n.e.c.	Administrative support occupations, n.e.c.	Administrative support occupations, n.e.c.	Administrative support occupations, n.e.c.	Administrative support occupations, n.e.c.	Administrative support occupations, n.e.c.	Administrative support occupations, n.e.c.	Administrative support occupations, n.e.c.	Administrative support occupations, n.e.c.	Administrative support occupations, n.e.c.	Administrative support occupations, n.e.c.	Administrative support occupations, n.e.c.	Administrative support occupations, n.e.c.

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A)

United States	Retail trade—Con.									
	Food stores									
	Total	Grocery stores		Dairy products stores		Retail bakeries		Food stores, n.e.c.		
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations, except protective and household	100 008	54 164	68 216	33 015	6 662	4 740	18 976	13 610	6 154	2 799
Private household	4 328	564	4 104	559	21	—	56	—	147	5
Protective service occupations	251	8	238	8	6	—	—	—	7	—
Supervisors, protective service occupations	—	—	—	—	—	—	—	—	—	—
Supervisors, firefighting and fire prevention occupations	—	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	251	8	238	8	6	—	—	—	7	—
Supervisors, guards	19	7	19	7	—	—	—	—	—	—
Firefighting and fire prevention occupations	12	—	12	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—
Guards	4 058	556	3 847	551	15	—	56	—	140	5
Crossing guards	—	—	—	—	—	—	—	—	—	—
Guards and police, except public service	4 042	556	3 831	551	15	—	56	—	140	5
Protective service occupations, n.e.c.	16	—	16	—	—	—	—	—	—	—
Service occupations, except protective and household	95 680	53 600	64 112	32 456	6 641	4 740	18 920	13 610	6 007	2 794
Food preparation and service occupations	64 120	48 321	39 552	28 694	6 159	4 607	14 758	12 507	3 671	2 423
Supervisors, food preparation and service occupations	1 597	797	1 276	829	19	7	174	104	33	17
Bakers	342	112	305	92	2	—	4	—	—	—
Waiters and waitresses	19 246	17 932	7 131	6 472	2 926	2 539	8 407	8 180	788	742
Cooks, except short order	18 088	12 786	14 402	10 853	546	317	1 745	902	1 195	714
Spices, except short order	810	498	550	350	50	25	157	86	53	31
Food counter, fountain and related occupations	8 095	6 175	2 443	1 801	2 156	1 529	2 845	2 547	431	298
Kitchen workers, food preparation	8 046	6 002	7 381	5 610	72	42	112	86	481	264
Waiters and waitresses, assistants	1 856	764	1 539	661	126	31	95	39	96	33
Miscellaneous food preparation occupations	6 046	3 161	4 102	2 217	264	117	1 205	559	475	268
Health service occupations	338	210	286	176	14	14	16	8	22	12
Dental assistants	—	—	—	—	—	—	—	—	—	—
Nursing aides, except nursing	291	177	257	161	6	6	16	8	—	2
Nursing aides, orderlies, and attendants	47	33	29	15	8	8	—	—	10	10
Cleaning and building service occupations, except household	29 453	3 588	23 201	2 662	447	98	3 594	533	2 211	295
Supervisors, cleaning and building service workers	462	15	427	15	10	—	12	—	13	10
Maid and housemen	3 075	462	2 519	373	47	20	303	49	206	20
Janitors and cleaners	25 884	3 099	20 223	2 262	390	78	3 279	484	1 992	275
Elevator operators	18	12	14	12	—	—	—	—	—	—
Pest control occupations	14	—	—	—	—	—	—	—	—	—
Personal service occupations	1 769	1 571	1 073	924	21	21	572	562	103	64
Supervisors, personal service occupations	13	2	9	2	—	—	—	—	4	—
Barbers	12	—	—	—	—	—	—	—	—	—
Hairstressers and cosmetologists	211	211	204	204	—	—	7	7	—	—
Attendants, amusement and recreation facilities	60	38	49	38	—	—	—	—	11	—
Guides	26	19	13	6	7	7	6	6	—	—
Ushers	11	4	11	4	—	—	—	—	—	—
Public transportation attendants	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	20	—	20	—	—	—	—	—	—	—
Welfare service aides	—	—	—	—	—	—	—	—	—	—
Child care workers, except private household	75	65	55	45	—	—	8	8	12	12
Personal service occupations, n.e.c.	1 341	1 232	700	625	14	14	551	541	76	52
Farming, forestry, and fishing occupations	902	245	524	213	6	6	27	13	345	19
Farm operators and managers	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	142	119	125	110	—	—	—	—	17	9
Related agricultural occupations	444	93	342	87	6	6	20	6	76	9
Supervisors, related agricultural occupations	—	—	—	—	—	—	—	—	—	—
Groundskeepers and gardeners, except farm	351	47	264	47	6	6	7	6	74	7
Animal caretakers, except farm	86	46	71	40	—	—	13	6	2	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Retail trade—Con									
	Food stores					Motor vehicle dealers				
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States										
Employed persons 16 years and over—Con										
Farming, forestry, and fishing occupations—Con										
Forestry and logging occupations	37	13	30	6	—	—	7	7	21	—
Supervisors, forestry and logging workers	—	—	—	—	—	—	—	—	—	—
Forestry workers, except logging	26	7	19	—	—	—	7	7	21	—
Timber cutting and logging occupations	11	6	11	6	—	—	—	—	—	—
Fishers, hunters, and trappers	279	20	27	10	—	—	252	10	—	—
Captains and other officers, fishing vessels	13	—	—	—	—	—	13	—	—	—
Fishers	258	12	19	2	—	—	239	10	—	—
Hunters and trappers	8	8	8	8	—	—	—	—	—	—
Precision production, craft, and repair occupations	264 595	42 326	184 345	24 082	2 629	1 054	45 362	14 408	283 819	3 499
Mechanics and repairers	8 425	310	6 273	250	412	5	853	21	268 644	2 841
Supervisors, mechanics and repairers	—	—	—	—	—	—	—	—	20 992	34
Mechanics and repairers, except supervisors	8 425	310	6 273	250	412	5	853	21	247 652	2 807
Vehicle and mobile equipment mechanics and repairers	7 791	228	5 773	204	387	—	784	9	233 482	395
Automotive and stationary engine mechanics	2 791	18	1 914	18	180	—	388	—	233 126	1 854
Bus, truck, and utility vehicle mechanics	1 252	14	1 068	14	155	—	306	—	184 437	1 410
Aircraft engine mechanics	545	—	425	—	15	—	61	—	2 997	5
Small engine repairers	14	—	15	—	2	—	—	—	32	—
Automobile body and related repairers	15	—	—	—	—	—	—	—	396	—
Aircraft mechanics, except engine	86	—	51	—	6	—	21	—	44 476	384
Heavy equipment mechanics	340	4	340	4	—	—	—	—	476	—
Farm equipment mechanics	39	—	17	—	2	—	—	—	685	55
Industrial machinery repairers	1 410	21	876	7	70	—	256	6	963	8
Machinery maintenance occupations	70	—	38	—	7	—	15	—	121	—
Electrical and electronic equipment repairers	137	21	110	21	6	—	11	—	641	32
Electronic repairers, communications and industrial equipment	52	8	52	8	—	—	—	—	310	—
Data processing equipment repairers	15	—	15	—	—	—	—	—	11	—
Household appliance and power tool repairers	51	5	24	5	6	—	11	—	77	—
Telephone line installers and repairers	—	—	—	—	—	—	—	—	6	—
Telephone installers and repairers	14	8	14	8	—	—	—	—	25	14
Miscellaneous electrical and electronic equipment repairers	5	—	5	—	—	—	—	—	212	12
Heating, air conditioning, and refrigeration mechanics	1 422	5	1 269	5	85	—	11	—	128	20
Miscellaneous mechanics and repairers	1 961	163	1 564	153	39	—	113	3	2 503	32
Camera, watch, and musical instrument repairers	5	—	5	—	—	—	—	—	27	7
Locksmiths and safe repairers	34	3	34	3	—	—	—	—	8	—
Office machine repairers	120	73	117	70	3	—	3	—	17	—
Mechanical controls and valve repairers	8	6	8	6	—	—	—	—	30	6
Elevator installers and repairers	19	—	19	—	—	—	—	—	21	—
Millwrights	22	—	14	—	—	—	—	—	124	8
Specified mechanics and repairers, n.e.c.	724	27	576	20	21	—	17	—	1 063	9
Not specified mechanics and repairers	1 029	54	791	54	18	—	93	—	1 213	2
Construction trades	3 258	66	2 861	56	86	—	136	10	1 775	34
Supervisors, construction occupations	503	4	445	4	25	—	13	—	77	9
Supervisors, brickmasons, stonemasons, and tile setters	—	—	—	—	—	—	—	—	—	—
Supervisors, carpenters and related workers	35	2	35	2	—	—	—	—	—	—
Supervisors, electricians and power transmission installers	11	—	11	—	—	—	—	—	—	—
Supervisors, painters, paperhangers, and plasterers	—	—	—	—	—	—	—	—	—	—
Supervisors, plumbers, pipefitters, and steamfitters	7	—	—	—	—	—	—	—	—	—
Supervisors, n.e.c.	450	—	399	—	25	—	7	—	77	9
Construction trades, except supervisors	2 755	62	2 416	52	61	—	123	10	1 698	25
Brickmasons and stonemasons	32	—	32	—	—	—	—	—	17	—
Tile setters, hard and soft	19	6	19	6	—	—	—	—	—	—
Carpet installers	6	—	6	—	—	—	—	—	6	—
Carpenters	1 437	16	1 277	11	31	—	25	5	300	6
Drywall installers	21	—	21	—	—	—	—	—	289	—
Electricians	549	—	452	—	30	—	34	—	—	—
Electrical power installers and repairers	12	—	12	—	—	—	—	—	—	—
Painters, construction and maintenance	360	8	317	8	—	—	37	—	990	19
Paperhangers	2	—	2	—	—	—	—	—	—	—

Table 4. **Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.**

United States

[illegible]

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

Retail trade—Con.										
	Food stores						Motor vehicle dealers	Auto and home supply stores		
	Grocery stores		Dairy products stores		Retail bakeries				Food stores, n.e.c.	
	Total	Female	Total	Female	Total	Female			Total	Female
Employed persons 16 years and over—Con.										
Precision production, craft, and repair occupations—Con.										
Precision production occupations—Con.										
Plant and system operators	679	33	495	25	10	—	74	8	100	—
Water and sewage treatment plant operators	2	—	2	—	—	—	—	—	—	—
Power plant operators	637	33	469	25	10	—	74	8	84	—
Stationary engineers	40	—	24	—	—	—	—	—	16	—
Miscellaneous plant and system operators	624	152	573	136	6	678	20	6	24	8
Operators, fabricators, and laborers	18	334	9	296	466	128	4	901	3	864
Machine operators, assemblers, and inspectors	9	790	5	668	343	77	2	334	2	976
Machine operators and tenders, except precision	104	34	69	14	9	9	21	11	5	—
Metalworking and plastic working machine operators	—	—	—	—	—	—	—	—	—	—
Metalworking and plastic working machine operators	—	—	—	—	—	—	—	—	—	—
Lathe and turning machine operators	—	—	—	—	—	—	—	—	—	—
Lathe and turning machine operators	—	—	—	—	—	—	—	—	—	—
Milling and planing machine operators	—	—	—	—	—	—	—	—	—	—
Punching and stamping press machine operators	45	25	34	14	—	—	11	11	—	—
Rolling machine operators	—	—	—	—	—	—	—	—	—	—
Drilling and boring machine operators	—	—	—	—	—	—	—	—	—	—
Grinding, abrading, buffing, and polishing machine operators	39	9	25	—	9	9	—	—	5	—
Forging machine operators	3	—	3	—	—	—	—	—	—	—
Numerical control machine operators	—	—	—	—	—	—	—	—	—	—
Miscellaneous metal, plastic, stone, and glass working machine operators	17	—	7	—	—	—	10	—	—	—
Fabricating machine operators, n.e.c.	8	8	8	8	—	—	—	—	—	—
Metal and plastic processing machine operators	30	12	28	10	—	—	—	—	—	—
Molding and casting machine operators	20	2	18	4	—	—	2	2	—	—
Metal planing machine operators	4	4	4	4	—	—	—	—	—	—
Heat treating equipment operators	6	6	6	6	—	—	—	—	—	—
Miscellaneous metal and plastic processing machine operators	—	—	—	—	—	—	—	—	—	—
Woodworking machine operators	55	15	6	—	—	—	14	—	35	15
Wood lathe, routing, and planing machine operators	36	10	6	—	—	—	—	—	30	10
Shaping and joining machine operators	19	5	—	—	—	—	14	—	5	5
Nailing and tacking machine operators	—	—	—	—	—	—	—	—	—	—
Miscellaneous woodworking machine operators	—	—	—	—	—	—	—	—	—	—
Printing machine operators	900	317	864	295	15	15	15	15	21	7
Photoengravers and lithographers	574	150	545	135	8	8	8	8	21	7
Typesetters and compositors	138	45	112	45	—	—	—	—	27	18
Miscellaneous printing machine operators	76	16	69	9	—	—	7	7	—	—
Textile, apparel, and furnishings machine operators	128	57	95	56	21	—	—	—	12	1
Winding and twisting machine operators	8	8	7	7	—	—	—	—	1	1
Knitting, looping, tapping, and weaving machine operators	—	—	—	—	—	—	—	—	—	—
Textile cutting machine operators	11	6	6	—	—	—	—	—	—	—
Textile sewing machine operators	19	12	19	12	—	—	—	—	—	—
Shoe machine operators	27	—	27	—	—	—	—	—	—	—
Pressing machine operators	5	—	—	—	5	—	—	—	—	—
Laundering and dry cleaning machine operators	37	21	21	21	16	—	—	—	30	18
Miscellaneous textile machine operators	21	10	15	10	—	—	—	—	6	—
Machine operators, assorted materials	8	225	3	952	313	68	2	282	2	948
Cementing and gluing machine operators	75	69	58	52	—	—	—	—	17	17
Packaging and filling machine operators	593	259	247	120	32	1	135	70	179	68
Extruding and forming machine operators	20	7	13	—	—	—	—	—	—	—
Mixing and blending machine operators	476	63	131	28	9	2	277	13	59	21
Separating, filtering, and clarifying machine operators	89	8	60	6	20	1	—	—	9	9
Compressing and compacting machine operators	75	10	55	9	—	—	13	7	—	—
Painting and paint spraying machine operators	259	111	70	9	19	8	24	7	146	96
Roasting and baking machine operators, food	71	15	22	—	—	—	20	10	29	—
Washing, cleaning, and pickling machine operators	64	31	31	—	—	—	4	—	29	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Retail trade—Con.									
	Food stores					Food stores, n.e.c.				
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States										
Employed persons 16 years and over—Con.										
Operators, fabricators, and laborers—Con.										
Machine operators, assemblers, and inspectors—Con.										
Machine operators and tenders, except precision—Con.										
Machine operators, assorted materials—Con.										
Folding machine operators.....	41	33	—	—	5	5	36	28	6	—
Furnace, kiln, and oven operators, except food.....	216	14	—	—	—	—	11	—	34	—
Crushing and grinding machine operators.....	309	73	101	14	—	—	122	32	5	—
Slicing and cutting machine operators.....	937	328	290	84	29	22	491	161	40	6
Motion picture projectionists.....	4	—	—	—	—	—	4	—	—	—
Photographic process machine operators.....	58	35	56	33	—	—	2	2	—	—
Miscellaneous machine operators, n.e.c.....	2 222	1 100	1 123	524	72	5	333	198	416	68
Machine operators, not specified.....	3 056	1 100	1 508	385	132	29	537	277	798	129
Fabricators, assemblers, and hand working occupations.....	5 810	2 402	2 296	715	81	32	957	396	2 034	203
Welders and cutters.....	693	36	514	27	9	—	122	9	654	25
Solders and brazers.....	—	—	—	—	—	—	—	—	13	—
Assemblers.....	1 209	468	759	258	40	30	274	110	1 272	152
Hand cutting and trimming occupations.....	850	251	458	122	4	—	388	129	—	—
Hand molding, casting, and forming occupations.....	48	21	18	7	—	—	20	14	8	—
Hand painting, coating and decorating occupations.....	581	349	244	83	9	—	120	113	26	9
Hand engraving and printing occupations.....	—	—	—	—	—	—	—	—	12	—
Hand grinding and polishing occupations.....	14	—	14	—	—	—	—	—	14	—
Miscellaneous hand working occupations.....	2 415	1 277	289	218	23	2	33	21	35	14
Production inspectors, testers, samplers, and weighers.....	2 734	1 483	1 978	987	42	19	623	421	303	42
Production inspectors, checkers, and examiners.....	812	219	608	127	16	1	133	53	279	35
Production testers.....	17	—	—	—	—	—	—	—	1	—
Production samplers and weighers.....	15	10	15	10	—	—	—	—	—	—
Graders and sorters, except agricultural.....	1 890	1 254	1 355	850	26	18	490	368	23	7
Transportation and material moving occupations.....	52 380	1 660	33 449	1 055	4 255	117	7 638	258	16 158	1 765
Motor vehicle operators.....	44 566	1 426	26 212	890	4 154	90	7 252	240	15 676	1 709
Supervisors, motor vehicle operators.....	19 591	43	249	28	61	—	79	5	9	—
Truck drivers, heavy.....	19 522	279	15 124	223	941	11	2 376	25	5 532	283
Truck drivers, light.....	14 951	613	8 744	399	1 471	28	2 940	122	5 224	728
Driver-sales workers.....	8 655	454	1 591	213	1 647	45	1 601	88	296	37
Bus drivers.....	97	27	77	27	—	—	20	—	255	100
Taxicab drivers and chauffeurs.....	595	10	295	—	34	6	179	—	2 807	439
Parking lot attendants.....	148	—	132	—	16	—	7	—	1 540	122
Motor transportation occupations, n.e.c.....	7	—	—	—	—	—	—	—	13	—
Rail transportation occupations.....	20	15	20	15	—	—	—	—	37	—
Railroad conductors and yardmasters.....	—	—	—	—	—	—	—	—	—	—
Locomotive operating occupations.....	20	15	20	15	—	—	—	—	15	—
Railroad brake, signal, and switch operators.....	—	—	—	—	—	—	—	—	22	—
Rail vehicle operators, n.e.c.....	—	—	—	—	—	—	—	—	—	—
Water transportation occupations.....	24	—	24	—	—	—	—	—	5	—
Ship captains and mates, except fishing boats.....	8	—	8	—	—	—	—	—	5	—
Sailors and deckhands.....	—	—	—	—	—	—	—	—	—	—
Marine engineers.....	16	—	16	—	—	—	—	—	—	—
Bridge, lock, and lighthouse tenders.....	—	—	—	—	—	—	—	—	—	—
Material moving equipment operators.....	7 770	219	7 193	150	101	27	386	18	440	56
Supervisors, material moving equipment operators.....	122	—	122	—	—	—	2	—	68	3
Operating engineers.....	52	—	45	—	5	—	—	—	—	—
Longshore equipment operators.....	—	—	—	—	—	—	—	—	—	—
Hoist and winch operators.....	6	—	6	—	—	—	12	—	6	—
Crane and tower operators.....	43	—	31	—	—	—	—	—	—	—
Excavating and loading machine operators.....	59	32	18	5	20	7	14	—	11	—
Grader, dozer, and scraper operators.....	35	8	24	8	11	—	—	—	3	—
Industrial truck and tractor equipment operators.....	6 924	108	6 568	96	39	—	259	2	147	18
Miscellaneous material moving equipment operators.....	529	71	379	41	26	7	99	16	200	35
Auto and home supply stores.....	—	—	—	—	—	—	—	—	—	—
Motor vehicle dealers.....	—	—	—	—	—	—	—	—	—	—
Food stores, n.e.c.....	—	—	—	—	—	—	—	—	—	—
Retail bakeries.....	—	—	—	—	—	—	—	—	—	—
Dairy products stores.....	—	—	—	—	—	—	—	—	—	—
Food stores, n.e.c.....	—	—	—	—	—	—	—	—	—	—
Auto and home supply stores.....	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Retail trade—Con									
	Food stores									
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Total	553 979	143 324	530 405	131 981	1 856	433	8 639	4 343	13 079	6 567
Operators, fabricators, and laborers—Con	45	19	32	19	7	—	—	—	6	—
Handers, equipment cleaners, helpers, and laborers	167	12	132	7	—	—	14	—	21	5
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	60	10	78	10	—	—	—	—	2	—
Helpers, mechanics and repairers	78	10	76	10	—	—	—	—	2	—
Helpers, construction and extractive occupations	2	—	2	—	—	—	—	—	—	—
Helpers, construction trades	—	—	—	—	—	—	—	—	—	—
Helpers, surveyor	—	—	—	—	—	—	—	—	—	—
Helpers, extractive occupations	—	—	—	—	—	—	—	—	—	—
Construction laborers	303	7	237	7	3	—	36	—	27	—
Production helpers	6 438	2 930	2 254	1 075	8	—	3 792	1 738	404	117
Freight, stock, and material handlers	458 649	87 025	451 634	85 135	933	114	2 294	1 132	3 788	642
Garage collectors	43	7	37	—	—	—	6	—	—	—
Greengrocers	20	8	9	3	—	—	11	5	—	—
Stock handlers and baggers	447 322	84 425	443 239	83 455	541	105	593	282	2 959	583
Machine feeders and oilers	3 106	2 215	1 771	1 367	—	—	1 338	820	47	28
Freight, stock, and material handlers, n.e.c.	8 158	369	6 638	304	392	9	346	25	782	31
Garage and service station related occupations	1 041	107	910	98	23	—	72	8	36	1
Vehicle washers and equipment cleaners	4 018	727	3 701	650	39	15	172	31	106	31
Hand packers and packagers	56 853	48 199	49 643	42 368	271	212	1 531	1 123	5 408	4 446
Laborers, except construction	26 365	4 289	21 784	2 611	572	92	728	261	3 281	1 325
Motor vehicle dealers										
Total	44 213	2 213								
Female	26	9								
Food stores, n.e.c.										
Total	13 079	6 567								
Female	6	—								
Retail bakeries										
Total	8 639	4 343								
Female	14	—								
Dairy products stores										
Total	1 856	433								
Female	7	—								
Grocery stores										
Total	530 405	131 981								
Female	19	—								
Auto and home supply stores										
Total	31 052	1 276								
Female	6	—								
229	15									
62	19									
43	19									
36	—									
1 222	41									
2 909	284									
2 398	263									
511	21									
21 461	209									
320	42									
428	239									
4 379	427									

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States															
Retail trade—Con.															
Gasoline service stations		Miscellaneous vehicle dealers		Apparel and accessory stores, except shoe		Shoe stores		Furniture and home furnishings stores		Household appliances, TV, and radio stores		Eating and drinking places			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
Employed persons 16 years and over															
Managerial and professional specialty occupations															
Executive, administrative, and managerial occupations															
Legislative, chief executives, and general administrators															
Public administration															
Administrators and officials, public administration															
Federal															
State															
Local															
Administrators, protective services															
Financial managers		471	117	209	68	2 421	1 321	220	99	2 419	1 031	1 248	404	21	10
Personnel and labor relations managers		1 260	169	75	6	2 112	1 455	498	155	918	340	712	208	1 587	587
Purchasing managers		50	19	77	11	1 392	511	259	34	418	75	197	29	414	50
Managers, marketing, advertising, and public relations		2 183	211	2 664	196	14 688	8 927	4 913	1 398	10 640	2 205	12 052	1 541	5 219	1 108
Administrators, education and related fields		11	—	—	—	48	30	11	—	6	—	68	19	156	45
Managers, medicine and health		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, properties and real estate		59	—	—	—	39	10	14	—	14	—	13	13	107	9
Postmasters and mail superintendents		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Funeral directors		—	—	—	—	13	13	—	—	48	—	—	—	59	15
Managers and administrators, n.e.c.		20 864	3 468	6 419	1 221	40 646	23 143	11 180	2 973	31 531	8 665	22 407	5 165	524 325	183 807
Salaried		16 940	3 086	5 370	1 001	35 509	20 004	10 394	2 792	26 649	7 151	18 976	4 351	396 141	136 692
Self-employed		3 924	382	1 049	220	5 137	3 139	786	181	4 882	1 514	3 431	814	128 184	47 115
Management related occupations															
Accountants and auditors		3 463	1 165	870	330	17 423	11 683	2 846	911	5 975	2 576	4 206	1 702	16 615	7 807
Other financial officers		2 181	824	395	212	2 500	1 431	656	190	1 811	820	1 623	771	5 398	2 943
Underwriters		—	—	—	—	2	—	—	—	—	—	—	—	5	—
Other financial officers		115	53	10	4	191	90	24	11	129	54	46	12	354	105
Management analysts		63	19	30	5	190	89	16	5	271	121	172	70	390	102
Personnel, training, and labor relations specialists		673	152	78	26	1 149	847	276	96	450	149	457	145	7 464	3 616
Purchasing agents and buyers, farm products		—	—	—	—	—	—	—	—	—	—	—	—	213	60
Buyers, wholesale and retail trade except farm products		—	—	—	—	—	—	—	—	—	—	—	—	2 331	824
Purchasing agents and buyers, n.e.c.		276	93	342	68	13 327	9 172	1 855	597	3 240	1 387	1 781	658	—	—
Business and promotion agents		48	11	—	—	16	11	6	6	33	20	79	28	249	87
Construction inspectors		—	—	—	—	—	—	7	—	—	—	7	—	46	5
Inspectors and compliance officers, except construction		87	—	5	5	25	25	6	6	15	8	13	7	129	52
Management related occupations, n.e.c.		20	13	10	10	23	17	—	—	26	17	28	11	36	13
Professional specialty occupations															
Engineers, architects, and surveyors		1 515	255	504	84	7 825	5 073	699	303	26 435	18 590	11 198	3 839	26 183	9 100
Architects		401	10	100	—	242	33	44	—	169	47	1 395	77	736	75
Engineers		47	—	—	—	80	8	27	—	34	22	6	—	240	27
Aerospace engineers		348	10	95	—	162	25	17	—	135	25	1 389	77	496	48
Metallurgical and materials engineers		—	—	8	—	—	—	—	—	11	—	6	—	17	—
Mining engineers		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Petroleum engineers		—	—	—	—	—	—	2	—	—	—	—	—	—	—
Chemical engineers		115	10	—	—	—	—	—	—	6	—	—	—	—	—
Nuclear engineers		30	—	—	—	—	—	—	—	8	8	19	—	191	16
Civil engineers		53	—	—	—	21	—	—	—	8	—	—	—	—	—
Agricultural engineers		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Electrical and electronic engineers		19	—	37	—	7	—	—	—	17	—	433	13	37	5
Industrial engineers		2	—	4	—	60	13	11	—	14	—	60	11	83	21
Mechanical engineers		19	—	13	—	17	—	—	—	6	—	162	—	61	—
Marine engineers and naval architects		6	—	22	—	11	—	—	—	10	—	—	—	—	—
Engineers, n.e.c.		104	—	11	—	46	12	4	—	55	17	707	53	107	6
Surveyors and mapping scientists		6	—	5	—	—	—	—	—	—	—	—	—	—	—
Mathematical and computer scientists															
Computer systems analysts and scientists		265	54	26	6	329	145	104	30	149	55	2 161	462	364	73
Operations and systems researchers and analysts		169	29	6	6	215	73	77	28	105	24	2 014	445	269	56
Actuaries		82	19	20	—	60	18	27	2	34	21	130	17	78	6
Statisticians		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mathematical scientists, n.e.c.		14	6	—	—	54	54	—	—	5	5	6	—	17	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Retail trade—Con														
Gasoline service stations		Miscellaneous vehicle dealers		Apparel and accessory stores, except shoe		Shoe stores		Furniture and home furnishings stores		Household appliances, TV, and radio stores		Eating and drinking places		
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
Employed persons 16 years and over—Con.														
Managerial and professional specialty occupations—Con.														
Professional specialty occupations—Con														
Natural scientists														
138	17	—	—	34	10	—	—	18	6	67	20	159	109	
11	—	—	—	5	—	—	—	4	—	16	—	6	6	
30	5	—	—	16	—	—	—	6	—	18	12	46	20	
2	—	—	—	13	10	—	—	6	6	14	—	—	—	
93	10	—	—	—	—	—	—	—	—	8	—	—	—	
Physical scientists, n.e.c.														
2	—	—	—	—	—	—	—	8	8	8	8	83	80	
Agricultural and food scientists														
—	—	—	—	—	—	—	—	—	—	3	3	3	3	
Biological and life scientists														
—	—	—	—	—	—	—	—	—	—	3	—	20	—	
Forestry and conservation scientists														
—	—	—	—	—	—	—	—	—	—	—	—	1	—	
Medical scientists														
38	20	13	—	24	12	19	—	23	17	23	—	37	5	
11	—	6	—	6	—	6	—	23	17	10	—	20	—	
27	20	—	—	6	6	—	—	—	—	6	—	12	—	
—	—	7	—	12	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	13	—	—	—	7	—	5	5	
Health diagnosing practitioners, n.e.c.														
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
37	7	—	—	127	67	42	—	195	92	264	21	956	731	
7	—	13	—	22	22	13	—	74	59	6	—	59	54	
7	—	29	—	100	40	29	—	110	27	258	21	131	25	
30	—	—	—	—	—	—	—	6	6	—	—	748	646	
—	—	—	—	5	5	—	—	—	—	—	—	18	6	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	5	—	—	—	—	—	
Physicians' assistants	—	—	—	—	—	—	—	—	—	—	—	—	—	
Physicians	—	—	—	—	—	—	—	—	—	—	—	—	—	
Teachers, postsecondary	47	10	—	12	2	16	—	19	6	60	31	117	62	
Teachers, except postsecondary	48	—	234	152	128	14	—	130	104	4 781	2 371	541	341	
Teachers, kindergarten and kindergarten	—	—	—	8	—	—	—	5	—	—	—	7	7	
Teachers, elementary and secondary school	—	—	—	—	—	—	—	—	—	—	—	—	—	
Teachers, special education	—	—	100	17	—	—	—	—	—	2	—	—	—	
Teachers, n.e.c.	48	—	134	144	128	7	—	125	99	4 779	2 371	534	334	
Counselors, educational and vocational	—	—	—	—	—	—	—	—	—	29	16	15	2	
Librarians, archivists, and curators	17	17	7	57	43	15	—	26	26	42	38	25	25	
Librarians	17	17	7	57	43	15	—	21	21	35	31	25	25	
Archivists and curators	—	—	—	—	—	—	—	5	5	7	7	—	—	
Social scientists and urban planners	258	40	8	123	67	13	6	77	29	498	148	445	213	
Economists	250	40	8	123	67	13	6	71	29	480	140	409	207	
Psychologists	8	—	—	—	—	—	—	6	—	10	—	6	—	
Sociologists	—	—	—	—	—	—	—	—	—	8	8	18	6	
Social scientists, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	6	6	
Urban planners	—	—	—	—	—	—	—	—	—	—	—	—	—	
Social, recreation, and religious workers	11	—	—	24	22	14	—	61	27	38	6	164	96	
Social workers	11	—	—	24	22	14	—	33	12	6	6	78	69	
Recreation workers	—	—	—	—	—	14	—	15	9	17	—	24	17	
Clergy	—	—	—	—	—	—	—	7	7	15	—	45	45	
Religious workers, n.e.c.	—	—	—	—	—	—	—	—	6	—	—	17	10	
Lawyers and judges	108	25	6	63	17	21	—	39	37	37	6	337	75	
Lawyers	108	25	6	63	17	21	—	39	37	37	6	337	75	
Judges	—	—	—	—	—	—	—	—	—	—	—	—	—	
Writers, artists, entertainers, and athletes	147	55	110	43	6 638	4 477	397	239	25 529	1 803	643	22 287	7 293	
Writers, artists, entertainers, and athletes	—	—	—	—	6	—	6	—	29	20	19	14	6	
Authors	—	—	—	—	—	—	—	—	29	19	77	11	51	
Technical writers	5	5	51	12	5 704	3 866	223	118	24 475	435	171	579	261	
Designers	17	—	—	—	14	—	—	—	34	34	401	131	1 027	
Musicians and composers	2	—	—	—	16	11	—	—	6	5	—	377	161	
Actors and directors	—	—	—	—	369	290	60	34	494	176	109	179	79	
Painters, sculptors, craft-artists, and artist printmakers	16	6	16	16	—	—	—	—	—	—	—	—	—	
Photographers	7	—	—	—	43	24	18	12	71	20	173	27	92	
Dancers	—	—	—	—	—	—	—	—	—	—	—	—	—	
Artists, performers, and related workers, n.e.c.	—	—	7	—	70	37	6	6	79	41	35	2 334	233	
Editors and reporters	12	5	—	—	175	147	47	32	132	74	117	52	105	
Public relations specialists	80	39	36	15	171	90	37	37	180	143	322	107	1 605	
Announcers	—	—	—	—	—	—	—	—	—	—	—	—	—	
Athletes	8	—	—	—	50	—	—	—	—	43	12	2 564	20	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Gasoline service stations		Miscellaneous vehicle dealers		Apparel and accessory stores, except shoe		Shoe stores		Furniture and home furnishings stores		Household appliances, TV, and radio stores		Eating and drinking places	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations	209 879	73 355	40 647	13 582	556 454	440 518	137 132	74 260	255 102	128 684	200 633	80 741	396 177	328 520
Health technicians and related support occupations	1 012	247	528	57	881	227	220	110	114	391	5 019	881	911	383
Health technicians, n.e.c.	14	6	—	—	—	—	24	19	86	79	47	19	216	154
Clinical laboratory technicians and technicians	6	—	—	—	—	—	—	—	7	—	3	3	14	14
Dental hygienists	—	—	—	—	—	—	—	—	6	6	9	9	17	6
Health record technicians and technicians	—	—	—	—	—	—	—	—	6	6	7	7	13	7
Radiologic technicians	—	—	—	—	—	—	—	—	67	67	7	7	59	57
Licensed practical nurses	—	—	—	—	—	—	5	—	67	67	7	7	107	63
Health technicians and technicians, n.e.c.	8	—	—	—	—	—	19	19	—	—	21	—	—	—
Engineering and related technicians and technicians	268	33	168	4	194	72	26	26	426	119	1 799	135	483	76
Electrical and electronic technicians	58	6	96	4	63	23	—	—	145	9	1 575	111	112	21
Industrial engineering technicians	10	—	—	—	26	13	—	—	—	—	—	—	77	—
Mechanical engineering technicians	7	—	—	—	—	—	—	—	—	—	3	—	13	—
Engineering technicians, n.e.c.	34	—	62	—	7	7	—	—	54	10	68	10	56	11
Drafting occupations	131	27	10	4	90	21	21	21	217	100	153	14	194	44
Surveying and mapping technicians	8	—	—	—	8	8	5	5	10	—	—	—	31	—
Science technicians	24	—	6	6	36	15	6	6	4	2	39	10	125	70
Biological technicians	—	—	—	—	—	—	6	6	—	—	3	—	32	22
Chemical technicians	15	—	—	—	15	—	—	—	—	—	—	—	29	12
Science technicians, n.e.c.	9	—	6	—	21	15	—	—	4	2	36	10	64	36
Technicians, except health, engineering, and science	706	208	354	47	651	140	164	59	598	191	3 134	717	1 087	283
Airplane pilots and navigators	88	—	186	6	2	—	—	—	68	13	14	—	69	—
Air traffic controllers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators	12	—	3	3	—	—	—	—	8	—	205	9	173	17
Computer programmers	273	94	28	15	498	86	134	47	333	135	2 164	659	429	130
Tool programmers, numerical control	25	17	—	2	11	2	—	—	10	—	18	3	13	—
Legal assistants	141	78	35	23	82	38	7	—	83	36	—	—	72	43
Technicians, n.e.c.	167	19	102	14	58	14	23	12	96	7	733	46	331	93
Sales occupations	166 360	37 610	29 139	4 060	483 988	380 719	124 551	64 678	183 326	69 756	144 855	38 062	313 765	260 893
Supervisors and proprietors, sales occupations	124 232	17 398	9 118	749	87 218	34 520	25 503	9 255	47 391	10 982	35 577	3 571	23 960	8 370
Self-employed	62 811	7 303	3 386	330	67 218	13 486	22 448	6 227	30 083	6 224	35 572	3 571	16 647	5 341
Sales representatives, finance and business services	61 401	3 695	2 732	417	22 213	13 486	3 635	1 035	18 308	4 758	12 085	1 984	7 133	2 599
Insurance sales occupations	122	18	37	3	709	551	134	81	365	232	151	44	510	225
Real estate sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Securities and financial services sales occupations	102	13	11	—	440	341	95	51	160	93	23	—	335	97
Advertising and related sales occupations	—	—	—	—	269	210	59	30	205	139	128	—	175	128
Sales occupations, other business services	20	5	26	3	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	—	—	—	—	5	5	7	—	15	—	403	7	—	—
Sales engineers	26	8	48	—	5	5	—	—	15	—	—	—	—	—
Sales representatives, mining, manufacturing, and wholesale	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services	41 923	26 171	19 906	3 303	392 608	324 492	98 457	57 312	134 489	58 082	105 944	31 902	289 106	252 172
Sales workers, commodities	3 338	237	19 600	3 090	363 045	296 280	91 331	50 640	130 214	54 317	100 813	27 826	34 185	23 289
Sales counter clerks	61	26	33	11	374	292	369	219	54	32	74	350	373	278
Cashiers	38 497	25 895	224	191	28 843	27 615	6 700	6 407	3 647	3 297	4 100	3 350	254 073	228 350
Street and door-to-door sales workers	21	6	44	6	254	226	20	13	512	390	870	653	346	181
News vendors	6	6	5	5	92	79	37	33	62	46	87	24	129	74
Sales related occupations	57	15	30	5	1 238	1 151	30	30	866	460	700	568	189	126
Demonstrators, promoters and models, sales	6	—	30	5	107	100	—	—	322	308	680	556	118	86
Auctioneers	—	—	—	—	1 018	957	30	30	16	—	—	—	2	—
Sales support occupations, n.e.c.	51	15	—	—	—	—	—	—	528	152	20	12	69	40
Administrative support occupations, including clerical	42 507	35 498	10 980	9 465	71 585	59 572	12 361	9 472	70 662	58 537	50 759	41 798	80 501	67 044
Supervisors, administrative support occupations	1 181	470	315	172	4 262	3 070	838	507	2 391	1 489	1 722	1 011	4 388	2 836
Supervisors, general office	67	278	282	159	2 692	2 095	588	392	1 456	992	1 182	753	3 235	2 172
Supervisors, computer equipment operators	73	124	—	—	104	64	91	—	11	—	75	5	46	26
Supervisors, financial records processing	418	168	13	13	913	699	97	71	684	388	202	196	747	497
Chief communications operators	—	—	—	—	12	12	—	—	4	—	10	—	40	14
Supervisors; distribution, scheduling, and adjusting clerks	39	—	20	—	541	200	102	44	438	98	172	47	328	174
Computer equipment operators	831	465	68	—	1 193	850	183	80	859	651	1 044	531	838	536
Computer operators	798	444	88	74	1 096	799	180	77	824	616	1 007	531	819	530
Peripheral equipment operators	33	21	—	—	97	51	3	3	35	35	37	—	20	6

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

OCCUPATION BY INDUSTRY

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

Employed persons 16 years and over—Con.

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Retail trade—Con.													
Gasoline service stations		Miscellaneous vehicle dealers		Apparel and accessory stores, except shoe		Shoe stores		Furniture and home furnishings stores		Household appliances, TV, and radio stores		Eating and drinking places	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
9	—	—	—	14	12	—	—	19	8	—	—	35	10
2	—	—	—	—	—	—	—	—	—	—	—	9	—
2	—	—	—	—	—	—	—	14	8	—	—	15	6
5	—	—	—	14	12	—	—	5	—	—	—	11	4
—	—	22	—	—	—	—	—	7	—	6	—	19	—
—	—	5	—	—	—	—	—	—	—	—	—	—	—
—	—	17	—	—	—	—	—	—	—	6	—	19	—
—	—	—	—	—	—	—	—	7	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
121 271	1 547	21 246	384	45 622	30 645	3 706	850	94 279	11 149	62 610	2 620	24 439	7 724
113 306	868	19 232	155	1 157	157	344	26	3 734	115	53 100	974	4 151	419
—	—	353	13	176	91	130	6	243	6	442	12	388	104
111 706	797	18 879	142	981	66	214	20	3 491	109	52 658	962	3 763	315
106 994	732	16 827	122	372	15	67	3	1 091	7	1 091	16	583	59
101 942	704	4 142	8	249	3	59	3	99	7	860	16	444	53
690	—	634	6	18	—	—	—	19	—	19	—	90	—
120	—	1 081	7	—	—	—	—	16	—	8	—	11	—
155	—	10 567	94	19	—	5	—	22	—	79	—	10	—
3 989	28	223	7	33	9	3	—	23	—	20	—	12	—
5	—	25	—	—	—	—	—	—	—	—	—	—	—
79	—	153	—	26	6	—	—	18	—	99	—	16	—
14	—	2	—	27	—	—	—	—	—	6	—	—	—
1 360	12	432	—	172	16	2	—	144	9	444	35	1 131	72
130	—	100	—	—	—	7	—	—	—	24	—	35	—
252	—	319	5	104	11	25	—	2 266	12	42 105	661	263	35
73	—	233	—	43	6	13	—	815	—	21 677	243	75	—
14	—	5	—	—	—	—	—	22	7	1 664	110	25	—
92	—	31	—	48	—	12	—	1 352	5	18 239	295	39	—
—	—	—	—	—	—	—	—	13	—	—	—	8	—
16	—	10	—	5	5	—	—	44	—	221	4	25	—
57	—	40	—	8	—	—	—	20	—	304	9	91	28
429	—	25	—	58	—	—	—	156	—	4 567	55	308	—
2 541	53	1 176	15	275	24	113	17	740	81	4 427	195	1 443	145
7	—	2	—	7	—	6	—	25	—	1 510	75	21	6
17	—	7	—	—	—	—	—	14	—	18	—	57	13
107	10	8	—	22	—	13	8	14	—	159	7	90	48
107	5	5	—	2	—	—	—	6	—	43	—	32	—
2	—	7	—	29	—	8	—	34	8	26	—	21	—
88	—	38	—	5	—	7	—	13	—	38	—	8	—
15	—	736	10	121	18	37	7	319	43	1 256	37	421	25
861	23	373	—	89	6	42	2	315	24	1 377	62	793	53
1 083	56	622	44	684	69	183	10	48 061	804	4 227	54	3 900	418
271	20	37	—	52	8	6	—	175	—	162	—	451	12
2	—	8	—	8	—	—	—	11	—	—	—	5	—
11	—	—	—	6	—	—	—	47	—	—	—	6	—
—	—	8	—	8	—	—	—	—	—	87	—	7	—
—	—	—	—	—	—	—	—	5	—	—	—	—	—
1	—	—	—	—	—	—	—	—	—	2	—	7	—
257	20	29	—	38	—	6	—	104	—	73	—	426	—
812	36	585	44	632	61	177	10	47 886	804	4 065	54	3 449	406
6	—	—	—	13	7	2	—	142	6	6	—	50	5
8	—	8	—	4	—	17	—	1 469	—	—	—	12	—
6	—	—	—	56	—	10	—	36 934	433	80	—	30	12
228	7	373	25	282	15	110	—	4 391	62	284	12	2 118	286
4	—	—	—	6	—	—	—	13	—	—	—	12	—
134	—	53	15	60	7	17	—	171	5	2 580	29	361	7
5	—	—	—	—	—	—	—	34	—	150	7	7	—
77	2	127	—	145	18	21	—	460	96	72	—	470	61
—	—	—	—	—	—	—	—	162	34	—	—	31	—

Employed persons 16 years and over—Con.

Farming, forestry, and fishing occupations—Con	
Forestry and logging occupations	
Supervisors, forestry and logging workers	
Forestry workers, except logging	
Forestry workers, except logging	
Forestry workers, except logging	
Fishers, hunters, and trappers	
Captains and other officers, fishing vessels	
Fishers	
Hunters and trappers	
Precision production, craft, and repair occupations	
Mechanics and repairers	
Supervisors, mechanics and repairers	
Mechanics and repairers, except supervisors	
Mechanics and repairers, except supervisors	
Vehicle and mobile equipment mechanics and repairers	
Automobile mechanics	
Bus, truck, and stationary engine mechanics	
Aircraft mechanics	
Aircraft engine mechanics	
Small engine repairers	
Automobile body and related repairers	
Aircraft mechanics, except engine	
Heavy equipment mechanics	
Farm equipment mechanics	
Industrial machinery repairers	
Machinery maintenance occupations	
Electrical and electronic equipment repairers	
Electronic repairers, communications and industrial equipment	
Data processing equipment repairers	
Household appliance and power tool repairers	
Telephone line installers and repairers	
Telephone installers and repairers	
Miscellaneous electrical and electronic equipment repairers	
Heating, air conditioning, and refrigeration mechanics	
Miscellaneous mechanics and repairers	
Camera, watch, and musical instrument repairers	
Locksmiths and safe repairers	
Office machine repairers	
Mechanical controls and valve repairers	
Elevator installers and repairers	
Railroad mechanics and repairers, n.e.c.	
Ship mechanics and repairers, n.e.c.	
Not specified mechanics and repairers	
Construction trades	
Supervisors, construction occupations	
Supervisors, bricklayers, masons, and tile setters	
Supervisors, carpenters and related workers	
Supervisors, electricians and power transmission installers	
Supervisors, painters, paperhangers, and plasterers	
Supervisors, plumbers, pipefitters, and steamfitters	
Supervisors, n.e.c.	
Construction trades, except supervisors	
Bricklayers and stonemasons	
Tile setters, hard and soft	
Carpet installers	
Carpenters	
Drywall installers	
Electricians	
Electrical power installers and repairers	
Painters, construction and maintenance	
Paperhangers	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Retail trade—Con.									
	Gasoline service stations		Miscellaneous vehicle dealers		Apparel and accessory stores, except shoe		Shoe stores		Furniture and home furnishings stores	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.										
Precision production, craft, and repair occupations—Con.										
Construction trades—Con.										
Plasterers	235	19	13	—	33	—	—	—	14	—
Plumbers, pipefitters, and steamfitters	—	—	—	—	—	—	—	—	136	—
Concrete and terrazzo finishers	9	—	7	—	—	—	—	—	32	—
Glaziers	20	8	—	—	—	—	—	—	505	7
Insulation workers	—	—	—	—	—	—	—	—	70	—
Roofers	12	—	—	—	—	—	—	—	42	—
Sheetmetal duct installers	6	—	—	—	—	—	—	—	7	—
Structural metal workers	—	—	4	4	—	—	—	—	185	—
Drillers, earth	—	—	—	—	—	—	—	—	19	—
Construction trades, n.e.c.	62	—	—	—	—	—	—	—	333	—
Construction occupations	34	—	—	—	—	—	—	—	—	—
Supervisors, extractive occupations	32	—	—	—	—	—	—	—	—	—
Supervisors, oil well	—	—	—	—	—	—	—	—	—	—
Explosives workers	—	—	—	—	—	—	—	—	—	—
Mining machine operators	—	—	—	—	—	—	—	—	—	—
Mining occupations, n.e.c.	2	—	—	—	—	—	—	—	—	—
Extractions occupations	—	—	—	—	—	—	—	—	—	—
Precision production occupations	6 848	623	1 392	185	43 781	30 419	3 179	814	42 471	10 230
Supervisors, production occupations	5 306	484	1 099	109	7 551	4 186	1 670	392	6 706	1 149
Precision metalworking occupations	320	16	183	—	216	97	38	—	301	49
Tool and die makers	5	—	—	—	—	—	—	—	6	—
Precision assemblers, metal	7	—	—	—	—	—	—	—	100	—
Machinists	257	16	146	—	80	33	32	—	7	—
Boilermakers	51	—	—	—	—	—	—	—	—	—
Precision grinders, filers, and tool sharpeners	—	—	—	—	18	9	—	—	—	—
Patternmakers and model makers, metal	—	—	—	—	43	14	—	—	4	—
Lay-out workers	—	—	—	—	47	28	—	—	22	—
Precious stones and metals workers (jewelers)	—	—	—	—	10	2	—	—	20	—
Engravers, metal	—	—	—	—	11	11	6	—	49	—
Sheet metal workers	—	—	37	—	7	—	—	—	76	—
Miscellaneous precision metal workers	—	—	—	—	—	—	—	—	10	—
Precision woodworking occupations	6	—	8	—	52	2	38	—	17 643	705
Patternmakers and model makers, wood	—	—	—	—	—	—	—	—	19	—
Cabinet makers and bench carpenters	6	—	5	—	18	—	38	—	15 394	544
Furniture and wood finishers	—	—	—	—	32	—	—	—	2 209	161
Miscellaneous precision woodworkers	—	—	3	—	2	—	—	—	21	—
Precision textile, apparel, and furnishings machine workers	64	7	94	59	35 726	26 056	1 410	422	17 421	8 224
Dressmakers	51	7	40	31	18 724	18 074	211	198	6 451	6 248
Tailors	—	—	—	—	14 136	5 628	47	22	63	35
Upholsterers	7	—	27	15	72	38	24	7	10 747	1 850
Shoe repairers	6	—	—	—	62	—	128	195	17	—
Apparel and fabric patternmakers	—	—	—	—	31	25	—	—	4	—
Miscellaneous precision apparel and fabric workers	—	—	27	13	2 701	2 291	—	—	139	91
Precision workers, assorted materials	80	6	12	12	102	34	10	—	111	43
Hand molders and shapers, except jewelers	—	—	—	—	5	—	—	—	32	—
Patternmakers, lay-out workers, and cutters	—	—	—	—	37	23	—	—	17	—
Optical goods workers	—	—	—	—	42	5	—	—	43	—
Dental laboratory and medical appliance technicians	6	6	5	5	7	—	—	—	—	—
Bookbinders	—	—	—	—	—	—	—	—	—	—
Electrical and electronic equipment assemblers	—	—	7	7	7	—	—	—	7	—
Miscellaneous precision workers, n.e.c.	74	—	—	—	6	6	—	—	12	—
Precision food production occupations	47	35	4	—	78	39	6	—	253	60
Butchers and meat cutters	21	9	4	—	61	33	6	—	90	22
Bakers	26	26	—	—	17	6	—	—	19	8
Food batchmakers	—	—	—	—	—	—	—	—	144	30
Precision inspectors, testers, and related workers	485	53	84	5	—	—	—	—	19	—
Inspectors, testers, and graders	485	53	84	5	—	—	—	—	19	—
Adjusters and calibrators	—	—	—	—	—	—	—	—	37	—
Household appliances, TV, and radio stores										
Furniture and home furnishings stores										
Shoe stores										
Apparel and accessory stores, except shoe										
Miscellaneous vehicle dealers										
Gasoline service stations										
Total	35	222	5	12	19	7	58	7	8	233
Female	—	—	—	—	—	—	—	—	—	—
Total	16 388	7 491	268	20	46	13	45	2	12	6
Female	—	—	—	—	—	—	—	—	—	—
Total	8 218	4 938	804	2 321	491	15	32	15	—	—
Female	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States														
Retail trade—Con														
Gasoline service stations		Miscellaneous vehicle dealers		Apparel and accessory stores, except shoe		Shoe stores		Furniture and home furnishings stores		Household appliances, TV, and radio stores		Eating and drinking places		
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con.														
Plant and system operators—Con.														
540	22	38	—	56	5	7	—	17	—	210	19	233	5	
62	—	—	—	5	—	—	—	—	—	—	—	—	—	
14	—	—	—	5	—	—	—	—	—	36	6	—	—	
186	2	30	—	46	—	7	—	12	—	174	13	126	5	
278	20	8	—	—	—	—	—	—	—	—	—	107	—	
259	109	5 331	370	27 141	13 967	5 555	1 391	65 869	7 979	17 723	2 196	49 653	14 109	
2 163	182	2 300	115	10 376	7 918	840	411	15 687	6 402	2 964	1 067	6 415	3 405	
1 151	109	505	89	8 886	6 836	623	305	6 641	3 262	1 750	655	4 841	2 587	
80	2	70	—	37	35	5	—	167	47	71	9	118	51	
10	—	2	—	—	—	—	—	—	—	—	—	—	—	
14	—	—	—	10	8	—	—	6	6	2	—	13	—	
—	—	—	—	—	—	—	—	10	—	—	—	—	—	
8	—	—	—	25	25	—	—	36	12	19	9	39	27	
—	—	—	—	—	—	—	—	7	7	—	—	—	—	
2	2	24	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
46	—	44	—	—	—	5	—	94	22	35	—	66	24	
—	—	—	—	—	—	—	—	7	—	15	—	—	—	
—	—	—	—	2	2	—	—	7	—	—	—	—	—	
8	—	—	—	55	55	7	7	26	—	14	2	7	7	
30	—	14	—	180	114	16	6	38	8	62	30	27	22	
24	—	6	—	184	108	16	6	38	8	43	30	23	18	
—	—	—	—	—	—	—	—	—	—	14	—	—	—	
6	—	—	—	6	6	—	—	—	—	5	—	4	4	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	8	—	—	—	—	—	—	—	—	—	—	—	
5	—	13	—	40	16	—	—	325	15	15	—	29	—	
—	—	—	—	—	—	—	—	7	—	—	—	—	—	
—	—	2	—	33	9	—	—	86	4	7	—	—	—	
—	—	—	—	—	—	—	—	14	—	8	—	—	—	
5	—	11	—	7	7	—	—	218	11	—	—	29	—	
39	—	17	—	488	285	13	3	129	67	116	47	100	60	
39	—	17	—	420	250	13	3	74	44	80	19	76	43	
—	—	—	—	16	—	—	—	26	18	8	—	—	17	
—	—	—	—	41	29	—	—	26	18	28	28	24	17	
—	—	—	—	11	6	—	—	29	5	—	—	—	—	
42	31	38	32	5 776	4 867	143	70	1 933	1 515	235	190	1 170	967	
—	—	6	—	6	6	—	—	—	—	—	—	9	7	
—	—	—	—	6	6	—	—	106	94	—	—	—	—	
—	—	—	—	—	—	—	—	30	—	—	—	3	—	
28	17	19	19	4 469	4 147	16	16	1 464	1 332	179	150	21	21	
—	—	—	—	83	83	103	36	17	6	9	1	—	—	
—	—	—	—	914	477	—	—	31	31	13	13	5	5	
14	14	4	4	131	117	18	18	207	38	6	6	1 085	908	
—	—	9	9	167	131	6	6	78	14	28	26	47	26	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
947	76	353	57	2 300	1 464	439	219	4 023	1 610	1 237	377	3 390	1 480	
15	—	—	—	8	—	20	13	42	24	32	15	5	5	
—	—	7	—	81	76	40	19	17	11	21	21	51	37	
—	—	13	7	—	—	—	—	6	—	—	—	—	—	
48	—	7	7	75	68	14	—	67	15	32	5	136	83	
16	—	—	—	35	35	—	—	—	—	—	—	—	—	
—	—	—	—	56	33	17	—	14	4	7	7	15	6	
233	14	160	—	11	11	—	—	446	93	21	—	54	17	
—	—	—	—	—	—	—	—	16	—	—	—	15	—	
1	—	—	—	6	—	—	—	6	6	—	—	15	—	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Retail trade—Con.											
Gasoline service stations	Total		Total		Total		Total		Total		Eating and drinking places
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total
Operators, fabricators, and laborers—Con.											
Machine operators, assemblers, and inspectors—Con.											
Machine operators and helpers, except precision—Con.											
Machine operators, except materials—Con.											
Folding machine operators	—	—	—	—	—	—	—	—	—	—	—
Furnace, kiln, and oven operators, except food	47	—	—	—	12	12	11	4	10	5	25
Crushing and grinding machine operators	—	—	—	—	16	16	11	—	44	10	95
Slicing and cutting machine operators	9	—	6	—	7	7	39	14	—	—	83
Motion picture projectionists	—	—	—	—	408	180	—	—	1 043	404	283
Miscellaneous machine operators, n.e.c.	11	—	—	—	5	5	—	—	—	—	—
Photographic process machine operators	251	30	39	9	8	2	2	—	30	30	3
Miscellaneous machine operators, not specified	309	26	121	34	700	360	113	78	1 302	655	996
Machine operators, not specified	—	—	—	—	872	659	172	91	986	357	1 601
Fabricators, assemblers, and hand working occupations	850	69	1 727	26	647	355	155	60	8 743	3 019	1 325
Welders and cutters	223	23	331	7	53	8	11	—	86	4	119
Solders and brazers	—	—	—	—	—	—	—	—	—	—	—
Assemblers	600	37	1 396	19	389	224	99	52	7 024	2 762	690
Hand cutting and trimming occupations	—	—	—	—	15	—	—	—	184	76	72
Hand molding, casting, and forming occupations	3	—	—	—	—	—	16	8	232	117	21
Hand painting, coating and decorating occupations	16	1	—	—	136	85	29	—	122	39	35
Hand engraving and printing occupations	—	—	—	—	—	—	—	—	15	8	—
Hand grinding and polishing occupations	—	—	—	—	6	—	—	—	—	—	—
Miscellaneous hand working occupations	8	8	—	—	48	38	—	—	74	13	6
Production inspectors, testers, samplers, and weighers	162	4	68	—	843	727	62	46	303	121	249
Production inspectors, checkers, and examiners	141	4	38	—	510	459	52	43	231	96	189
Production testers	21	—	21	—	6	—	—	—	—	—	10
Production samplers and weighers	—	—	—	—	23	23	—	—	19	19	6
Graders and sorters, except agricultural	—	—	9	—	304	245	10	3	53	6	44
Transportation and material moving occupations	15 784	259	1 001	44	3 258	312	539	38	31 829	260	26 940
Motor vehicle operators	14 683	168	716	37	2 723	199	396	22	30 773	231	26 494
Supervisors, motor vehicle operators	17	—	—	—	41	—	7	—	236	9	286
Truck drivers, heavy	11 296	120	375	6	964	47	178	7	8 724	71	4 455
Truck drivers, light	2 848	29	288	20	1 251	78	144	5	20 585	134	665
Driver-sales workers	223	—	6	—	322	74	45	—	867	7	16 313
Bus drivers	60	15	2	2	9	—	5	—	38	—	85
Taxicab drivers and chauffeurs	142	—	37	9	78	—	7	—	311	10	523
Parking lot attendants	97	4	—	—	58	—	10	10	12	—	35
Motor transportation occupations, n.e.c.	—	—	8	—	—	—	—	—	—	—	—
Rail transportation occupations	23	7	—	—	—	—	—	—	—	—	—
Railroad conductors and yardmasters	—	—	—	—	—	—	—	—	—	—	—
Locomotive operating occupations	6	—	—	—	—	—	—	—	—	—	—
Railroad brake, signal, and switch operators	17	7	—	—	—	—	—	—	—	—	—
Rail vehicle operators, n.e.c.	—	—	—	—	—	—	—	—	—	—	—
Water transportation occupations	26	—	147	7	6	—	—	—	19	—	25
Ship captains and mates, except fishing boats	3	—	67	—	—	—	—	—	4	—	8
Sailors and deckhands	23	—	69	7	6	—	—	—	—	—	13
Marine engineers	—	—	21	—	—	—	—	—	15	—	7
Bridge, lock, and lighthouse tenders	—	—	—	—	—	—	—	—	—	—	—
Material moving equipment operators	1 052	84	138	—	529	113	143	16	1 037	29	397
Supervisors, material moving equipment operators	161	34	—	—	47	6	7	—	124	52	24
Operating engineers	21	—	—	—	4	4	—	—	10	7	14
Longshore equipment operators	—	—	—	—	—	—	—	—	—	—	—
Hoist and winch operators	2	—	—	—	—	—	—	—	15	—	25
Crane and tower operators	—	—	—	—	—	—	—	—	5	—	6
Excavating and loading machine operators	23	—	6	—	5	—	—	—	17	—	27
Grader, dozer, and scraper operators	381	—	—	—	—	—	—	—	—	—	19
Industrial truck and tractor equipment operators	63	40	78	—	299	13	66	6	725	21	217
Miscellaneous material moving equipment operators	397	10	54	—	174	90	58	10	116	29	65

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Retail trade—Con																
Gasoline service stations			Miscellaneous vehicle dealers		Apparel and accessory stores, except shoe		Shoe stores		Furniture and home furnishings stores		Household appliances, TV, and radio stores		Eating and drinking places			
Total		Female	Total		Female	Total		Female	Total		Female	Total		Female	Total	
Employed persons 16 years and over—Con.																
Operators, fabricators, and laborers—Con.																
Handlers, equipment cleaners, helpers, and laborers-----																
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.-----																
241 162		21 327	2 030		211	13 507		5 737	4 176		942	18 353		1 317	5 639	
27		5	--		--	13		7	17		17	44		7	7	
1 183		86	139		--	29		7	10		--	23		--	83	
25		--	7		--	2		--	--		--	651		35	10	
25		--	7		--	2		--	--		--	651		35	10	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	
--		--	--		--	--		--	--		--	--		--	--	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

Retail trade—Con.														
	Drug stores		Liquor stores		Sporting goods, bicycles, and hobby stores		Book and stationery stores		Jewelry stores		Sewing, needlework, and piece goods stores		Mail order houses	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	490 082	296 723	145 407	45 848	199 014	92 662	148 124	83 447	155 115	92 532	65 487	54 503	138 371	89 820
Managerial and professional specialty occupations	124 812	27 876	15 740	3 065	30 262	12 802	20 492	9 498	20 515	10 012	7 947	5 913	18 432	8 015
Executive, administrative, and managerial occupations	22 457	8 240	15 432	2 978	23 490	7 677	19 175	8 690	18 845	9 057	6 084	4 134	15 504	6 381
Legislators, chief executives, and general administrators; public administration	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators and officials, public administration	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators, protective services	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Financial managers	352	122	64	27	314	153	285	122	1 182	808	88	38	616	311
Personnel and labor relations managers	956	350	446	102	546	178	370	207	339	184	214	180	385	198
Purchasing managers	611	155	85	8	288	69	198	68	125	38	50	35	266	64
Managers, marketing, advertising, and public relations	1 889	467	2 013	300	4 672	1 141	2 986	1 027	4 045	1 831	1 096	751	1 782	654
Administrators, education and related fields	—	—	8	—	7	—	40	30	—	—	—	—	11	—
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, properties and real estate	12	10	—	—	7	—	2	—	17	17	8	8	6	—
Postmasters and mail superintendents	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Funeral directors	6	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers and administrators, n.e.c.	13 277	4 154	11 771	2 241	15 140	4 983	11 294	4 876	10 406	4 479	3 916	2 631	8 083	2 876
Salaries	12 777	3 939	9 111	1 513	11 418	3 173	9 789	4 131	9 026	3 938	3 086	1 970	7 152	2 499
Self-employed	500	215	2 660	728	3 722	1 100	1 505	745	1 380	541	830	661	931	377
Management related occupations	5 352	2 982	1 043	300	2 516	1 153	4 000	2 360	2 731	1 700	712	491	4 355	2 267
Accountants and auditors	1 355	810	350	191	655	329	612	378	720	432	153	109	1 113	589
Information systems managers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other financial officers	54	8	14	2	36	—	30	13	45	16	6	6	88	35
Management analysts	10	—	27	6	49	—	49	23	87	83	19	8	84	57
Personnel, training, and labor relations specialists	469	183	168	39	196	43	258	187	237	108	86	59	557	371
Purchasing agents and buyers, farm products	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Buyers, wholesale and retail trade except farm products	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Purchasing agents and buyers, n.e.c.	3 432	1 972	480	68	1 606	766	2 987	1 717	1 642	1 061	442	309	2 440	1 189
Business and promotion agents	—	—	4	—	9	9	57	35	—	—	—	—	—	—
Construction inspectors	11	—	—	—	2	—	—	—	—	—	—	—	—	—
Inspectors and compliance officers, except construction	21	9	—	—	2	—	—	—	—	—	—	—	—	—
Management related occupations, n.e.c.	—	—	—	—	6	6	7	7	—	—	6	—	50	26
Professional specialty occupations	102 355	19 636	308	87	6 772	5 125	1 317	808	1 670	955	1 863	1 779	2 928	1 634
Engineers, architects, and surveyors	156	25	24	—	102	28	44	—	20	—	17	5	228	60
Architects	47	8	8	—	15	9	7	—	6	—	6	—	10	5
Engineers	109	17	16	—	87	19	37	—	14	—	6	—	218	55
Aerospace engineers	—	—	—	—	—	—	—	—	—	—	—	—	4	—
Metallurgical and materials engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mining engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Petroleum engineers	—	—	—	—	2	—	—	—	—	—	—	—	—	—
Chemical engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nuclear engineers	—	—	5	—	—	—	—	—	7	—	—	—	—	—
Civil engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Agricultural engineers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Electrical and electronic engineers	35	8	—	—	7	—	6	—	6	—	—	—	—	—
Industrial engineers	21	2	—	—	23	—	11	—	1	—	6	—	128	50
Mechanical engineers	15	—	—	—	14	—	—	—	—	—	—	—	15	—
Marine engineers and naval architects	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Engineers, n.e.c.	38	7	11	—	41	19	20	—	—	—	—	—	49	—
Surveyors and mapping scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mathematical and computer scientists	243	92	7	7	90	21	39	15	85	46	32	26	464	208
Computer systems analysts and scientists	131	57	—	—	54	10	24	6	50	26	11	5	232	78
Operations and systems researchers and analysts	94	35	—	—	28	11	15	9	28	13	21	—	115	37
Actuaries	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Statisticians	7	—	7	—	8	—	—	—	7	—	—	—	—	—
Mathematical scientists, n.e.c.	11	—	—	—	—	—	—	—	—	—	—	—	117	93

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Retail trade—Con														
	Drug stores		Liquor stores		Sporting goods, bicycles, and hobby stores		Book and stationery stores		Jewelry stores		Sewing, needlework, and piece goods stores		Mail order houses	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Managerial and professional specialty occupations—Con.														
Professional specialty occupations—Con.														
Natural scientists	260	58	24	9	47	35	12	3	42	20	—	—	34	19
Physicists and astronomers	67	8	—	—	—	—	—	—	—	—	—	—	—	—
Chemists, except biochemists	90	8	16	9	46	34	—	—	—	—	—	—	16	9
Atmospheric and space scientists	—	—	—	—	1	1	9	—	19	8	—	—	6	6
Geologists and geodesists	16	5	—	—	—	—	—	—	23	12	—	—	—	—
Physical scientists, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Agricultural and food scientists	8	8	8	—	—	—	—	—	—	—	—	—	—	—
Biological and life scientists	18	8	—	—	—	—	3	3	—	—	—	—	12	4
Biological and life scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Forestry and conservation scientists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Medical scientists	61	21	—	—	—	—	—	—	—	—	—	—	—	—
Health diagnosing occupations	603	120	6	—	7	7	—	—	17	7	—	—	—	—
Physicians	222	31	—	—	5	5	—	—	—	—	—	—	—	—
Dentists	59	22	6	—	—	—	—	—	10	—	—	—	—	—
Veterinarians	173	43	—	—	—	—	—	—	—	—	—	—	—	—
Optometrists	26	8	—	—	—	—	—	—	—	—	—	—	—	—
Podiatrists	—	—	—	—	2	2	—	—	7	7	—	—	—	—
Health diagnosing practitioners, n.e.c.	123	16	—	—	—	—	—	—	—	—	—	—	—	—
Health assessment and treating occupations	99	18	18	6	16	—	29	6	33	26	—	—	81	57
Registered nurses	626	234	6	6	—	—	—	—	16	16	—	—	45	45
Pharmacists	18	18	12	—	16	—	23	6	17	10	—	—	36	12
Dietitians	190	32	—	—	—	—	6	—	—	—	—	—	—	—
Therapists	202	83	—	—	—	—	—	—	—	—	—	—	—	—
Physicians' assistants	26	8	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, postsecondary	24	5	—	—	17	17	28	6	—	—	—	—	7	7
Teachers, except postsecondary	60	39	13	5	3	3	60	38	65	58	1	242	174	155
Teachers, prekindergarten and kindergarten	12	12	—	—	—	—	—	—	—	—	7	—	10	10
Teachers, elementary and secondary school	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, special education	—	—	—	—	1	1	—	—	—	—	2	2	—	—
Teachers, n.e.c.	48	27	13	5	1	1	60	38	65	58	1	233	164	145
Counselors, educational and vocational	8	8	—	—	—	—	29	22	—	—	—	—	—	—
Librarians, archivists, and curators	16	5	—	—	—	—	175	130	7	—	12	12	52	34
Librarians	8	5	—	—	—	—	175	130	7	—	6	6	6	6
Archivists and curators	8	—	—	—	—	—	—	—	7	7	6	6	46	34
Social scientists and urban planners	75	17	19	7	39	21	54	34	24	19	6	6	308	160
Economists	54	11	19	7	32	21	54	34	19	14	6	6	301	153
Psychologists	6	6	—	—	—	—	—	—	—	—	—	—	7	7
Sociologists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Social scientists, n.e.c.	15	—	—	—	7	—	—	—	5	5	—	—	—	—
Urban planners	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Social, recreation, and religious workers	78	61	33	20	69	31	64	41	34	33	22	22	21	12
Social workers	78	61	27	20	56	29	32	26	31	31	22	22	16	7
Recreation workers	—	—	—	—	2	2	10	—	2	2	—	—	5	5
Clergy	—	—	6	—	6	—	22	15	1	—	—	—	—	—
Religious workers, n.e.c.	—	—	6	—	5	—	—	—	—	—	—	—	—	—
Lawyers and judges	69	6	6	—	28	5	14	—	25	6	—	—	20	—
Lawyers	69	6	6	—	28	5	14	—	25	6	—	—	20	—
Judges	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	930	608	158	33	2	1	769	513	1	739	526	466	1	922
Authors	6	6	—	—	6	6	8	—	—	—	—	—	5	5
Technical writers	28	28	—	—	6	6	31	18	—	—	—	—	36	18
Designers	384	268	43	12	1	713	362	270	1	624	453	396	534	321
Musicians and composers	5	—	5	—	9	2	13	7	—	—	—	—	19	14
Actors and directors	8	—	—	—	—	—	—	—	—	—	—	—	6	6
Painters, sculptors, craft-artists, and artist printmakers	171	73	7	7	865	653	98	48	64	26	33	30	248	151
Photographers	81	52	—	—	355	78	15	—	—	—	8	8	69	12
Dancers	—	—	8	8	—	—	33	33	—	—	—	—	—	—
Artists, performers, and related workers, n.e.c.	34	20	9	3	96	66	24	16	—	—	16	16	64	41
Editors and reporters	165	137	—	—	30	17	100	82	31	22	—	—	431	293
Public relations specialists	—	—	—	—	101	69	85	39	89	67	16	16	127	67
Announcers	48	24	19	3	—	—	—	—	—	—	—	—	—	—
Athletes	—	—	—	—	69	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Retail trade—Con.														
	Drug stores		Liquor stores		Sporting goods, bicycles, and hobby stores		Book and stationery stores		Jewelry stores		Sewing, needlework, and piece goods stores		Mail order houses	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations	296 640	237 514	109 524	39 275	136 067	68 683	112 922	70 789	109 863	77 066	51 634	45 723	88 269	66 763
Technicians and related support occupations	1 461	944	90	17	579	134	447	78	601	191	37	5	935	335
Health technologists and technicians	464	347	—	—	9	9	—	—	2	2	—	—	8	—
Clinical laboratory technologists and technicians	90	40	—	—	—	—	—	—	—	—	—	—	—	—
Dental hygienists	2	2	—	—	—	—	—	—	—	—	—	—	—	—
Health record technologists and technicians	18	6	—	—	—	—	—	—	—	—	—	—	—	—
Radiologic technicians	74	74	—	—	9	9	—	—	2	2	—	—	6	6
Licensed practical nurses	280	225	—	—	—	—	—	—	—	—	—	—	2	2
Health technologists and technicians, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Engineering and related technologists and technicians	201	91	23	—	222	40	160	35	18	6	—	—	172	67
Electrical and electronic technicians	38	11	7	—	113	11	131	13	—	—	—	—	88	27
Industrial engineering technicians	—	—	—	—	—	—	—	—	—	—	—	—	6	6
Mechanical engineering technicians	8	8	—	—	—	—	—	—	—	—	—	—	2	2
Engineering technicians, n.e.c.	94	67	6	—	70	18	—	—	—	—	—	—	47	9
Drafting occupations	61	5	10	—	39	11	29	22	18	6	—	—	29	23
Surveying and mapping technicians	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Science technicians	52	41	—	—	26	26	—	—	21	12	6	—	78	48
Biological technicians	16	16	—	—	—	—	—	—	—	—	—	—	—	—
Chemical technicians	11	—	—	—	10	10	—	—	5	5	—	—	10	10
Science technicians, n.e.c.	25	25	—	—	16	16	—	—	16	7	—	—	48	38
Technicians, except health, engineering, and science	744	465	67	17	322	59	287	43	560	171	31	5	677	212
Airplane pilots and navigators	5	—	—	—	—	—	—	—	6	—	7	—	—	—
Air traffic controllers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators	—	—	—	—	7	—	—	—	—	—	—	—	8	—
Computer programmers	255	115	26	11	99	25	97	12	118	47	5	5	489	168
Tool programmers, numerical control	15	—	—	—	—	—	15	—	14	—	—	—	18	—
Legal assistants	26	13	21	—	14	14	27	6	16	—	—	—	3	—
Technicians, n.e.c.	443	337	20	6	202	20	148	25	406	124	19	—	159	36
Sales occupations	230 935	185 659	97 362	32 667	115 609	53 102	83 594	49 479	86 644	57 063	46 354	41 561	25 637	16 016
Supervisors and proprietors, sales occupations	23 184	7 130	30 284	6 440	31 059	10 245	18 601	8 454	18 269	6 045	8 471	6 256	6 831	2 415
Salaries	21 949	6 619	18 167	3 325	18 062	4 727	12 382	5 607	12 056	4 091	5 527	3 925	4 716	1 692
Self-employed	1 235	511	12 117	3 115	12 997	5 518	6 219	2 847	6 213	1 954	2 944	2 331	2 115	723
Sales representatives, finance and business services	152	100	55	21	112	41	66	54	52	26	24	24	97	47
Insurance sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Real estate sales occupations	61	37	33	7	59	13	24	18	16	4	5	5	7	—
Securities and financial services sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Advertising and related sales occupations	91	63	22	14	53	28	42	36	36	22	19	19	90	47
Sales occupations, other business services	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	16	—	7	—	6	—	13	—	5	—	—	—	5	—
Sales engineers	16	—	7	—	6	—	13	—	5	—	—	—	5	—
Sales representatives, mining, manufacturing, and wholesale	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services	207 508	178 369	66 987	26 191	84 272	42 662	64 899	40 964	68 209	50 888	37 828	35 250	18 617	13 478
Sales workers, commodities	126 930	104 890	50 266	16 557	75 612	34 885	55 281	33 309	65 557	48 417	35 383	32 878	9 969	505
Sales counter clerks	388	319	124	49	246	85	113	75	72	43	51	51	14 311	9 988
Cashiers	79 900	72 951	16 499	9 550	8 214	7 543	8 875	7 177	2 445	2 323	2 268	2 219	2 014	1 867
Street and door-to-door sales workers	131	122	68	35	154	111	572	393	87	62	77	64	1 317	1 112
News vendors	159	87	28	—	46	38	58	10	48	43	49	38	6	6
Sales related occupations	75	60	29	15	160	154	15	7	109	104	31	31	87	76
Demonstrators, promoters and models, sales	33	33	15	15	160	154	10	2	31	31	31	31	33	33
Auctioneers	7	—	—	—	—	—	—	—	3	—	—	—	—	—
Sales support occupations, n.e.c.	35	27	14	—	—	—	5	5	75	73	—	—	54	43
Administrative support occupations, including clerical	64 244	50 911	12 072	6 591	19 879	15 447	28 881	21 332	22 618	19 812	5 243	4 157	61 697	50 412
Supervisors, administrative support occupations	2 561	1 593	722	143	1 065	613	1 477	825	1 084	793	423	313	4 442	3 000
Supervisors, general office	2 047	1 369	660	127	741	484	969	648	513	413	349	283	3 119	2 274
Supervisors, computer equipment operators	—	—	—	—	—	—	36	20	—	—	—	—	157	65
Supervisors, financial records processing	16	—	—	—	4	—	—	—	—	—	—	—	—	—
Supervisors, financial communications	291	194	35	16	197	94	177	131	504	365	18	13	324	236
Chief communications operators	—	—	—	—	—	—	—	—	—	—	—	—	19	19
Supervisors, distribution, scheduling, and adjusting clerks	207	30	27	—	123	35	295	26	67	15	56	17	823	406
Computer equipment operators	946	658	151	95	282	205	364	283	254	178	75	35	1 655	957
Computer operators	909	647	144	88	282	205	344	274	254	178	75	35	1 520	849
Peripheral equipment operators	37	11	7	7	—	—	20	9	—	—	18	—	135	108

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

	Drug stores		Liquor stores		Sporting goods, bicycles, and hobby stores		Book and stationery stores		Jewelry stores		Sewing, needlework, and piece goods stores		Mail order houses	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations—Con.														
Administrative support occupations, including clerical—Con.														
Secretaries, stenographers, and typists	8 359	8 174	1 138	1 105	3 147	3 100	4 931	4 815	3 019	2 987	670	660	7 469	7 538
Secretaries	4 602	4 516	1 002	980	2 843	2 805	3 907	3 831	2 556	2 529	585	579	4 870	4 810
Stenographers	37	32	32	32	304	295	13	13	7	7	8	8	13	13
Typists	3 720	3 634	104	98	417	393	1 011	971	456	451	77	73	2 786	2 715
Information clerks	657	617	38	8	14	14	50	43	986	901	125	125	1 422	1 309
Interviewers	44	38	8	8	16	16	—	—	702	652	14	14	361	300
Hotel clerks	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Transportation ticket and reservation agents	48	48	25	13	16	16	—	—	17	11	—	—	9	7
Receptionists	483	449	76	70	347	347	362	336	235	226	73	73	529	501
Information clerks, n.e.c.	62	82	7	7	40	32	113	90	32	32	38	38	523	501
Records processing occupations, except financial	4 512	3 849	779	321	982	675	2 357	1 647	1 043	705	400	345	12 732	11 007
Classified-ad clerks	89	84	—	—	12	2	8	—	27	8	—	—	45	39
Correspondence clerks	10	10	—	—	—	—	45	21	—	—	21	14	481	479
Order clerks	3 469	2 883	744	292	696	441	1 796	1 241	609	332	307	266	10 627	9 033
Personnel clerks, except payroll and timekeeping	228	221	14	8	16	16	20	15	30	30	13	13	144	142
Library clerks	6	6	—	—	7	—	155	91	—	—	—	—	16	—
File clerks	632	589	14	14	225	195	327	273	263	232	54	47	1 083	1 019
Records clerks	78	56	7	7	26	21	6	6	114	103	5	5	336	295
Financial records processing occupations	19 575	18 754	3 424	3 081	6 960	6 491	8 124	7 452	8 852	8 458	1 302	1 167	5 726	5 359
Bookkeepers, accounting, and auditing clerks	17 981	17 333	3 282	2 981	6 535	6 153	7 371	6 829	8 422	8 093	1 174	1 054	4 245	3 969
Payroll and timekeeping clerks	278	271	49	41	101	101	79	79	112	81	41	41	523	508
Billing clerks	766	723	28	26	121	108	520	445	210	203	63	48	656	627
Cost and rate clerks	510	390	54	14	173	99	122	73	70	43	12	12	172	134
Billing, posting, and calculating machine operators	40	37	11	11	30	30	32	26	38	38	12	12	130	121
Duplicating, mail, and other office machine operators	97	74	18	12	18	18	118	70	26	26	6	6	456	407
Duplicating machine operators	31	17	10	10	6	6	59	40	40	40	—	—	34	30
Mail preparing and paper handling machine operators	—	—	—	—	—	—	20	20	7	7	—	—	239	202
Office machine operators, n.e.c.	66	57	8	2	12	12	39	10	19	19	6	6	183	175
Communications equipment operators	159	133	15	15	99	87	83	83	111	106	33	33	732	696
Telephone operators	132	120	15	15	99	87	79	79	106	106	33	33	732	696
Telegraphers	21	7	—	—	—	—	4	4	—	—	—	—	—	—
Communications equipment operators, n.e.c.	6	6	—	—	—	—	—	—	5	—	—	—	—	—
Mail and message distributing occupations	1 801	626	201	25	204	98	707	215	355	116	61	32	3 792	2 954
Postal clerks, except mail carriers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mail carriers, postal service	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mail clerks, except postal service	1 344	551	130	12	142	89	531	173	153	81	35	25	3 587	2 893
Messengers	457	75	71	13	62	9	176	42	202	35	26	7	205	61
Material recording, scheduling, and distributing clerks	12 286	5 222	2 888	511	3 697	1 311	5 382	1 680	2 320	1 327	1 096	493	10 362	5 565
Dispatchers	53	23	30	20	20	20	43	17	—	—	—	—	31	18
Production coordinators	1 197	989	391	117	219	126	156	121	173	131	84	84	906	679
Traffic, shipping, and receiving clerks	2 820	981	172	14	1 271	618	2 473	796	618	308	360	116	4 449	1 936
Stock and inventory clerks	7 250	2 440	2 147	321	1 877	669	2 494	796	1 219	618	586	235	2 911	1 185
Meter readers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Weights, measurers, and checkers	130	85	30	5	69	42	83	51	27	22	21	13	487	388
Smelters	16	7	—	—	—	—	4	—	7	7	—	—	22	22
Expediers	459	386	107	50	195	136	292	187	192	166	40	40	1 413	1 211
Material recording, scheduling, and distributing clerks, n.e.c.	361	311	11	4	46	23	49	35	84	75	5	5	143	126
Adjusters and investigators	490	317	120	81	234	171	314	181	789	665	36	31	1 604	1 389
Insurance adjusters, examiners, and investigators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Investigators and adjusters, except insurance	351	192	55	19	212	156	212	113	334	292	31	31	1 219	1 050
Eligibility clerks, social welfare	50	36	—	—	—	—	8	2	15	8	—	—	5	5
Bill and account collectors	89	89	65	62	22	15	94	66	440	365	5	—	380	334
Miscellaneous administrative support occupations	12 801	10 894	2 500	1 104	2 774	2 285	4 499	3 512	3 779	3 550	998	917	11 105	10 231
General office clerks	11 391	9 691	2 367	1 041	2 293	1 874	3 759	2 930	3 370	3 180	883	810	6 004	5 484
Bank tellers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Proofreaders	12	7	—	—	8	—	10	10	—	—	—	—	216	210
Proofreaders, typesetters	812	765	45	39	295	287	366	312	250	250	70	70	3 418	3 288
Statistical clerks	287	234	12	6	52	43	106	82	51	46	12	12	736	680
Teachers' aides	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrative support occupations, n.e.c.	297	195	76	18	126	81	259	173	102	68	33	25	731	569

Table 4. **Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.**

Retail trade—Con.														
	Drug stores		Liquor stores		Sporting goods, bicycles, and hobby stores		Book and stationery stores		Jewelry stores		Sewing, needlework, and piece goods stores		Mail order houses	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	29 616	22 413	4 416	2 247	1 559	502	1 406	509	1 557	486	504	95	2 435	764
Private household occupations	1 081	224	187	25	206	49	214	44	291	15	27	—	714	81
Protective service occupations	69	18	2	—	37	—	20	—	16	—	—	—	80	10
Supervisors, protective service occupations	—	—	—	—	—	—	—	—	—	—	—	—	11	—
Supervisors, firefighting and fire prevention occupations	69	18	2	—	37	—	20	—	16	—	—	—	69	10
Supervisors, police and detectives	14	14	2	—	6	—	—	—	—	—	—	—	—	—
Supervisors, guards	6	6	2	—	—	—	—	—	—	—	—	—	—	—
Firefighting and fire prevention occupations	8	8	—	—	—	—	—	—	—	—	—	—	—	—
Fire inspection and fire prevention occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Firefighting occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	998	192	183	25	163	49	194	44	275	15	27	—	623	71
Guards	998	192	183	25	158	44	194	44	275	15	27	—	623	71
Crossing guards	—	—	—	—	5	5	—	—	—	—	—	—	—	—
Guards and police, except public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Food preparation and service occupations	28 535	22 189	4 229	2 222	1 353	453	1 192	465	1 266	471	477	95	1 921	683
Food preparation and service occupations	8 576	7 567	3 161	1 978	1 63	122	233	142	94	94	18	—	197	155
Supervisors, food preparation and service occupations	273	252	20	10	12	5	14	—	5	—	—	—	—	—
Bartenders	17	14	2 049	1 071	67	62	67	63	34	34	—	—	37	37
Waiters and waitresses	3 888	3 817	631	569	37	27	26	13	9	9	—	—	57	41
Waiters, except short order	1 657	1 334	148	91	37	27	26	13	9	9	—	—	41	—
Cooks, except short order	3 118	2 864	76	45	24	7	33	25	16	16	—	—	—	—
Short-order cooks	1 628	1 439	197	176	7	7	—	—	—	—	—	—	17	17
Food counter, fountain and related occupations	69	52	32	22	11	2	63	29	19	19	—	—	13	13
Kitchen workers, food preparation	202	177	36	11	11	2	30	12	19	19	—	—	23	3
Waiters' and waitresses' assistants	524	268	—	—	—	—	—	—	—	—	—	—	50	50
Miscellaneous food preparation occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Health service occupations	15 048	12 906	26	26	6	6	6	6	19	19	—	—	73	62
Dental assistants	34	20	—	—	—	—	—	—	—	—	—	—	6	6
Health aides, except nursing	14 932	12 829	5	5	—	—	—	—	13	13	—	—	19	19
Nursing aides, orderlies, and attendants	82	57	21	21	6	6	6	6	6	6	—	—	37	37
Cleaning and building service occupations, except household	3 862	724	941	175	985	229	853	279	1 105	310	445	81	1 488	328
Supervisors, cleaning and building service workers	61	14	6	6	13	6	5	5	—	—	—	—	47	—
Maid and houseman	496	147	99	19	77	32	77	43	182	73	47	25	207	64
Janitors and cleaners	3 297	555	842	156	901	191	771	236	911	230	391	56	1 137	264
Elevator operators	8	8	—	—	—	—	—	—	12	7	—	—	97	—
Pest control occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Personal service occupations	1 049	992	81	48	199	96	100	38	48	48	14	14	163	138
Supervisors, personal service occupations	15	49	—	—	17	—	18	—	—	—	—	—	—	—
Barbers	11	—	—	—	8	—	8	—	—	—	—	—	—	—
Hairdressers and cosmetologists	855	848	—	—	—	—	16	8	28	28	9	9	7	7
Attendants, amusement and recreation facilities	25	7	—	—	77	26	28	13	—	—	—	—	—	—
Guides	—	—	12	6	35	13	—	—	—	—	—	—	—	—
Ushers	6	6	—	—	—	—	—	—	—	—	—	—	—	—
Public transportation attendants	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	17	6	—	—	—	—	—	—	—	—	—	—	—	—
Welfare service aides	14	—	11	—	21	21	6	6	9	9	—	—	—	—
Child care workers, except private household	67	62	58	42	66	36	25	11	11	11	5	5	129	109
Personal service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farming, forestry, and fishing occupations	35	23	21	—	77	20	22	2	5	—	21	7	62	20
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	2	2	—	—	—	—	—	—	—	—	—	—	3	2
Related agricultural occupations	33	21	21	—	43	20	10	2	5	—	21	7	52	18
Supervisors, related agricultural occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Groundskeepers and gardeners, except farm	18	6	21	—	23	—	10	2	5	—	14	7	—	—
Animal caretakers, except farm	15	15	—	—	20	20	—	—	—	—	—	—	—	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Retail trade—Con									
	Drug stores		Liquor stores		Sporting goods, bicycles, and hobby stores		Book and stationery stores		Jewelry stores	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con.										
Forestry and logging occupations	—	—	—	—	2	—	6	—	—	—
Supervisors, forestry and logging workers	—	—	—	—	—	—	—	—	—	—
Forestry workers, except logging	—	—	—	—	2	—	6	—	—	—
Timber cutting and logging occupations	—	—	—	—	32	—	6	—	—	—
Fishers, hunters, and trappers	—	—	—	—	21	—	6	—	—	—
Captains and other officers, fishing vessels	—	—	—	—	4	—	—	—	—	—
Fishers	—	—	—	—	—	—	—	—	—	—
Hunters and trappers	—	—	—	—	—	—	—	—	—	—
Precision production, craft, and repair occupations	5 360	1 801	2 179	303	12 353	2 058	3 883	808	19 850	3 485
Mechanics and repairers	618	78	350	6	8 031	249	1 732	35	9 181	824
Supervisors, mechanics and repairers	45	6	5	—	151	42	26	5	82	39
Mechanics and repairers, except supervisors	573	72	345	6	7 880	207	1 706	30	9 099	785
Vehicle and mobile equipment mechanics and repairers	151	3	83	—	869	26	47	—	28	5
Automobile mechanics	123	—	71	—	423	26	34	—	17	—
Bus, truck, and stationary engine mechanics	—	—	12	—	38	—	—	—	—	—
Aircraft engine mechanics	—	—	—	—	—	—	—	—	—	—
Small engine repairers	16	3	—	—	300	—	2	—	19	5
Automobile body and related repairers	12	—	—	—	42	—	11	—	—	—
Aircraft mechanics, except engine	—	—	—	—	49	—	—	—	4	—
Heavy equipment mechanics	—	—	—	—	9	—	—	—	—	—
Form equipment mechanics	—	—	—	—	—	—	—	—	—	—
Industrial machinery repairers	94	8	51	—	97	—	292	5	39	5
Machinery maintenance occupations	—	—	6	—	—	—	—	—	—	—
Electrical and electronic equipment repairers	109	—	17	—	158	6	140	—	17	—
Electronic repairers, communications and industrial equipment	33	—	15	—	74	—	91	—	4	—
Data processing equipment repairers	5	—	2	—	20	—	16	—	13	—
Household appliance and power tool repairers	71	—	—	—	—	—	9	—	—	—
Telephone line installers and repairers	—	—	—	—	12	6	—	—	—	—
Telephone installers and repairers	—	—	—	—	—	—	—	—	—	—
Miscellaneous electrical and electronic equipment repairers	—	—	—	—	52	—	14	—	—	—
Heating, air conditioning, and refrigeration mechanics	24	—	24	—	—	—	—	—	—	—
Miscellaneous mechanics and repairers	195	61	164	6	6 756	175	1 227	25	9 010	775
Cameramen, watch, and musical instrument repairers	23	—	13	—	347	24	7	—	8 557	320
Cosmeticians and hair stylists	28	—	—	—	53	—	—	—	—	—
Opticians and optician assistants	10	—	—	—	28	—	1 014	16	—	—
Mechanical controls and valve repairers	2	—	—	—	—	—	7	—	—	—
Electrician installers and repairers	10	—	10	—	8	—	—	—	6	—
Millwrights	36	6	103	—	5 861	137	74	—	2 394	455
Specified mechanics and repairers, n.e.c.	96	34	38	6	479	14	118	7	53	—
Not specified mechanics and repairers	—	—	—	—	—	—	—	—	—	—
Construction trades	593	31	160	—	730	141	243	5	112	17
Supervisors, construction occupations	49	—	—	—	74	7	10	—	26	—
Supervisors, brickmasons, stonemasons, and tile setters	9	—	—	—	6	—	—	—	—	—
Supervisors, carpenters and related workers	2	—	—	—	—	—	—	—	—	—
Supervisors, electricians and power transmission installers	9	—	—	—	21	7	—	—	—	—
Supervisors, painters, paperhangers, and plasterers	6	—	—	—	—	—	—	—	6	—
Supervisors, plumbers, pipefitters, and steamfitters	—	—	—	—	—	—	—	—	—	—
Supervisors, n.e.c.	32	—	—	—	47	—	10	—	20	—
Construction trades, except supervisors	544	31	160	—	656	134	233	5	86	17
Brickmasons and stonemasons	12	—	—	—	88	6	6	—	100	6
Tile setters, hard and soft	16	—	2	—	32	—	33	—	—	—
Carpet installers	305	16	77	—	190	24	116	5	36	5
Carpenters	—	—	—	—	22	—	7	—	—	—
Drywall installers	67	—	11	—	—	—	23	—	12	—
Electricians	37	9	—	—	—	—	—	—	—	—
Electrical power installers and repairers	—	—	—	—	187	100	38	—	27	12
Painters, construction and maintenance	39	6	59	—	—	—	—	—	—	—
Paperhangers	—	—	—	—	—	—	—	—	—	—
Mail order houses	—	—	—	—	—	—	—	—	—	—
Sewing, needlework, and piece goods stores	—	—	—	—	—	—	—	—	—	—
Jewelry stores	—	—	—	—	—	—	—	—	—	—
Book and stationery stores	—	—	—	—	—	—	—	—	—	—
Sporting goods, bicycles, and hobby stores	—	—	—	—	—	—	—	—	—	—
Liquor stores	—	—	—	—	—	—	—	—	—	—
Drug stores	—	—	—	—	—	—	—	—	—	—
Total	2 402	7	—	—	—	—	—	—	—	—
Female	—	—	—	—	—	—	—	—	—	—
Total	2 402	7	—	—	—	—	—	—	—	—
Female	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Retail trade—Con.									
	Drug stores		Liquor stores		Sporting goods, bicycles, and hobby stores		Book and stationery stores		Jewelry stores	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Plasterers.....	—	—	—	—	—	—	—	—	—	—
Precision production, craft, and repair occupations—Con.	41	—	—	—	—	—	—	—	—	—
Construction trades—Con.	—	—	—	—	—	—	—	—	—	—
Plumbers, pipefitters, and steamfitters.....	—	—	—	—	—	—	—	—	—	—
Concrete and terrazzo finishers.....	—	—	—	—	—	—	—	—	—	—
Glaziers.....	7	—	5	—	6	—	6	—	8	—
Insulation workers.....	—	—	—	—	—	—	—	—	—	—
Paving, surfacing, and tamping equipment operators.....	—	—	—	—	10	—	—	—	—	—
Roofers.....	—	—	6	—	6	—	—	—	—	—
Sheetmetal duct installers.....	—	—	—	—	10	—	—	—	—	—
Structural metal workers.....	—	—	—	—	53	—	—	—	—	—
Drillers.....	—	—	—	—	8	—	—	—	—	—
Construction trades, n.e.c.....	6	—	6	—	—	—	—	—	48	—
Extractive occupations.....	6	—	—	—	—	—	—	—	—	—
Supervisors, extractive occupations.....	6	—	—	—	—	—	—	—	—	—
Drillers, oil well.....	—	—	—	—	—	—	—	—	—	—
Explosives workers.....	—	—	—	—	—	—	—	—	—	—
Mining machine operators.....	—	—	—	—	—	—	—	—	—	—
Mining occupations, n.e.c.....	—	—	—	—	—	—	—	—	—	—
Precision production occupations.....	4 143	1 692	—	—	—	—	—	—	—	—
Supervisors, production occupations.....	3 598	1 421	1 663	297	3 584	1 668	1 908	768	10 557	2 644
Precision metalworking occupations.....	50	27	1 555	279	2 101	624	1 375	709	1 476	562
Tool and die makers.....	10	—	20	—	451	290	28	6	8 956	2 033
Precision assemblers, metal.....	—	—	—	—	—	—	2	—	13	—
Machinists.....	27	14	10	—	57	11	13	11	89	36
Boilermakers.....	—	—	—	—	17	—	—	—	—	—
Precision grinders, filers, and tool sharpeners.....	—	—	—	—	—	—	—	—	—	—
Pattenmakers and model makers, metal.....	—	—	—	—	—	—	—	—	—	—
Lay-out workers.....	7	7	10	—	6	6	—	—	—	—
Precious stones and metals workers (jewelers).....	6	6	—	—	255	85	7	—	1 055	1 467
Engravers, metal.....	—	—	—	—	—	171	—	—	35	14
Sheer metal workers.....	—	—	—	—	5	—	—	—	—	—
Miscellaneous precision metal workers.....	—	—	—	—	—	—	—	—	—	—
Precision woodworking occupations.....	70	16	—	—	75	27	22	—	15	—
Pattenmakers and model makers, wood.....	7	9	—	—	10	—	7	—	—	—
Cabinet makers and bench carpenters.....	27	7	—	—	19	—	15	—	6	—
Furniture and wood finishers.....	9	—	—	—	46	27	—	—	9	—
Miscellaneous precision woodworkers.....	101	59	17	6	706	638	5	—	51	23
Precision textile, apparel, and furnishings machine workers.....	80	57	—	—	588	575	—	—	13	7
Dressmakers.....	—	—	12	6	26	12	—	—	8	8
Tailors.....	13	2	—	—	21	9	5	—	24	2
Upholsterers.....	—	—	5	—	2	—	—	—	—	—
Shoe repairers.....	6	—	—	—	4	—	—	—	—	—
Apparel and fabric patternmakers.....	2	—	—	—	4	—	—	—	—	—
Miscellaneous precision apparel and fabric workers.....	—	—	—	—	51	38	—	—	6	6
Precision workers, assorted materials.....	268	137	6	—	192	69	93	42	25	12
Hand molders and shapers, except jewelers.....	5	—	6	—	40	34	6	6	6	6
Patternmakers, lay-out workers, and cutters.....	—	—	—	—	75	8	—	—	18	—
Optical goods workers.....	241	121	—	—	—	—	7	—	13	—
Dental laboratory and medical appliance technicians.....	13	13	—	—	19	14	6	—	—	—
Bookbinders.....	3	3	—	—	—	—	60	31	—	—
Electrical and electronic equipment assemblers.....	—	—	—	—	6	13	14	5	6	6
Miscellaneous precision workers, n.e.c.....	6	—	—	—	52	—	—	—	—	—
Precision food production occupations.....	71	26	65	12	31	20	—	—	26	14
Butchers and meat cutters.....	63	18	57	12	5	—	—	—	15	8
Bakers.....	3	3	2	—	26	20	—	—	8	8
Food batchmakers.....	—	—	—	—	—	—	—	—	—	—
Precision inspectors, leaders, and related workers.....	14	6	—	—	8	—	—	—	—	—
Inspectors, testers, and graders.....	14	6	—	—	—	—	—	—	—	—
Adjusters and calibrators.....	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States													
Retail trade—Con													
Drug stores		Liquor stores		Sporting goods, bicycles, and hobby stores		Book and stationery stores		Jewelry stores		Sewing, needlework, and piece goods stores		Mail order houses	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
Precision production, craft, and repair occupations—Con.													
Precision production occupations—Con.													
Food and system operators													
41	—	—	—	20	—	25	—	8	—	—	—	80	—
2	—	—	—	4	—	—	—	—	—	—	—	—	—
39	—	—	—	16	—	25	—	8	—	—	—	80	—
Power plant operators													
Stationary engineers													
Miscellaneous plant and system operators													
33 619	7 096	13 527	958	18 696	8 597	9 399	1 841	3 325	1 483	3 195	1 324	21 994	11 856
1 539	917	481	171	11 278	6 692	1 511	612	1 125	594	1 424	995	5 663	3 983
1 136	691	354	125	8 974	5 909	1 245	471	627	285	1 176	812	3 390	2 281
29	20	—	—	92	11	35	—	327	118	15	—	92	51
7	—	—	—	6	—	6	—	5	—	—	—	11	6
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
8	8	—	—	—	—	—	—	21	13	—	—	17	6
—	—	—	—	—	—	—	—	7	7	—	—	—	—
—	—	—	—	11	—	12	—	5	5	—	—	—	—
14	12	—	—	59	11	8	—	283	87	7	—	51	26
—	—	—	—	—	—	—	—	6	6	8	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	16	—	9	—	—	—	—	—	13	13
—	—	—	—	7	—	—	—	—	—	—	—	15	15
32	7	—	—	222	126	18	7	59	24	10	—	117	47
32	7	—	—	174	95	18	7	38	24	8	2	111	47
—	—	—	—	43	31	—	—	21	—	6	—	—	—
—	—	—	—	5	—	—	—	—	—	2	2	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	—	—	—	101	2	—	—	—	—	—	—	10	—
177	94	23	11	192	103	844	267	54	19	30	11	609	298
151	79	23	11	156	82	713	178	39	14	24	11	442	171
6	—	—	—	4	4	9	5	5	—	6	—	7	—
20	15	—	—	26	17	89	56	10	5	—	—	126	99
—	—	—	—	6	—	33	28	28	—	—	—	34	28
47	28	8	—	276	237	25	19	23	—	233	196	90	88
—	—	—	—	—	—	—	—	—	—	8	8	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	49	49	—	—	—	—	29	25	—	—
—	—	—	—	—	—	—	—	—	—	7	—	—	—
24	12	—	—	184	166	25	19	6	—	156	130	73	71
7	—	—	—	9	—	—	—	—	—	9	9	12	12
16	16	8	—	10	10	—	—	14	—	4	4	—	—
—	—	—	—	24	12	—	—	3	—	20	20	5	5
844	542	323	114	8 062	5 425	323	178	164	124	875	603	2 446	1 776
—	—	—	—	18	6	12	12	7	7	24	24	22	20
83	68	82	19	34	23	13	13	9	9	—	—	179	133
—	—	—	—	47	15	3	—	5	5	23	—	10	10
56	7	14	—	9	—	—	—	—	—	7	—	—	—
—	—	62	25	8	8	—	—	—	—	10	—	40	28
5	—	—	—	70	44	26	—	24	—	—	—	51	29
6	1	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Precision production occupations—Con.

Plant and system operators—Con.

Water and sewage treatment plant operators

Stationary engineers

Miscellaneous plant and system operators

Operators, fabricators, and laborers

Machine operators, assemblers, and inspectors

Machine operators and tenders, except precision

Metalworking and plastic working machine operators

Lathe and turning machine set-up operators

Lathe and turning machine operators

Milling and planing machine operators

Punching and stamping press machine operators

Rolling machine operators

Drilling and boring machine operators

Grinding, abrading, buffing, and polishing machine operators

Sawing machine operators

Numerical control machine operators

Miscellaneous metal, plastic, stone, and glass working machine operators

Fabricating machine operators, n.e.c.

Metal and plastic processing machine operators

Molding and casting machine operators

Metal plating machine operators

Heat treating equipment operators

Miscellaneous metal and plastic processing machine operators

Woodworking machine operators

Wood lathe, routing, and planing machine operators

Sawing machine operators

Shaping and joining machine operators

Nailing and tacking machine operators

Miscellaneous woodworking machine operators

Printing machine operators

Photoengraving and lithographers

Typesetters and compositors

Miscellaneous printing machine operators

Textile, apparel, and furnishings machine operators

Winding and twisting machine operators

Knitting, looping, and weaving machine operators

Textile cutting machine operators

Textile sewing machine operators

Shoe machine operators

Pressing machine operators

Laundering and dry cleaning machine operators

Miscellaneous textile machine operators

Machine operators, assorted materials

Cementing and filling machine operators

Packaging and filling machine operators

Extruding and forming machine operators

Mixing and blending machine operators

Separating, filtering, and clarifying machine operators

Compressing and compacting machine operators

Painting and paint spraying machine operators

Roasting and baking machine operators, food

Washing, cleaning, and picking machine operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Retail trade—Con.													
Drug stores		Liquor stores		Sporting goods, bicycles, and hobby stores		Book and stationery stores		Jewelry stores		Sewing, needlework, and piece goods stores		Mail order houses	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States													
Employed persons 16 years and over—Con.													
Operators, fabricators, and laborers—Con.													
Machine operators, assemblers, and inspectors—Con.													
Machine operators and tenders, except precision—Con.													
Machine operators, assorted materials—Con.													
Folding machine operators													
Furnace, kiln, and oven operators, except food													
Crushing and grinding machine operators													
Slicing and cutting machine operators													
Motion picture projectionists													
Photographic process machine operators													
Miscellaneous machine operators, n.e.c.													
Machine operators, not specified													
Fabricators, assemblers, and hand working occupations													
Welders and cutters													
Solderers and brazers													
Assemblers													
Hand cutting and trimming occupations													
Hand molding, casting, and forming occupations													
Hand painting, coating and decorating occupations													
Hand engraving and printing occupations													
Hand grinding and polishing occupations													
Miscellaneous hand working occupations													
Production inspectors, testers, samplers, and weighers													
Production inspectors, checkers, and examiners													
Production testers													
Production samplers and weighers													
Graders and sorters, except agricultural													
Transportation and material moving occupations													
Motor vehicle operators													
Supervisors, motor vehicle operators													
Truck drivers, heavy													
Truck drivers, light													
Driver-sales workers													
Bus drivers													
Taxicab drivers and chauffeurs													
Parking lot attendants													
Motor transportation occupations, n.e.c.													
Rail transportation occupations													
Railroad conductors and yardmasters													
Locomotive operating occupations													
Railroad brake, signal, and switch operators													
Rail vehicle operators, n.e.c.													
Water transportation occupations													
Ship captains and mates, except fishing boats													
Sailors and deckhands													
Marine engineers													
Bridge, lock, and lighthouse tenders													
Material moving equipment operators													
Supervisors, material moving equipment operators													
Operating engineers													
Longshore equipment operators													
Hoist and winch operators													
Crane and tower operators													
Excavating and loading machine operators													
Grader, dozer, and scraper operators													
Industrial truck and tractor equipment operators													
Miscellaneous material moving equipment operators													

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Construction workers
Handlers, equipment cleaners, helpers, and laborers
Sawyers, handlers, equipment cleaners, and laborers.
n.e.c.
Helpers, mechanics and extractive occupations
Helpers, construction and repair occupations
Helpers, construction trades
Helpers, surveyor
Helpers, extractive occupations
Construction laborers
Production helpers
Freight, stock, and material handlers
Garbage collectors
Stewards
Stock handlers and buggies
Machine feeders and operators
Freight, stock, and material handlers, n.e.c.
Garage and service station related occupations
Vehicle washers and equipment cleaners
Hand packers and packagers
Laborers, except construction

Retail trade—Con													
Drug stores		Liquor stores		Sporting goods, bicycles, and hobby stores		Book and stationery stores		Jewelry stores		Sewing, needlework, and piece goods stores		Mail order houses	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
20 828	5 211	8 597	734	5 960	1 729	3 948	1 071	1 785	825	1 553	321	13 383	7 561
-	-	-	-	14	-	-	-	-	-	-	-	-	-
-	-	28	28	18	-	-	-	-	-	-	-	13	-
-	-	-	-	18	-	-	-	-	-	-	-	8	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
69	-	-	-	97	13	13	-	-	-	-	-	22	-
54	31	16	-	38	11	6	6	-	-	-	-	65	15
16 883	3 623	7 614	561	3 132	806	2 157	514	700	202	926	101	2 867	479
5	-	6	-	-	-	-	-	-	-	-	-	-	-
1	-	9	-	-	-	-	-	-	-	-	-	-	-
16 431	3 604	7 214	546	2 915	786	2 016	513	555	100	864	101	1 713	370
13	-	14	-	13	13	7	-	93	93	-	-	48	34
433	19	371	15	204	7	134	1	52	9	62	-	1 106	75
60	14	48	-	38	7	12	6	3	3	42	-	55	7
187	31	74	-	54	14	40	23	32	7	-	-	67	25
378	160	76	-	470	315	345	139	475	385	171	70	4 545	3 814
2 962	1 134	657	69	2 099	563	1 375	383	575	228	414	150	5 741	3 221

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

Retail trade—Con.

545

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Retail trade—Con											
Vending machine operators		Direct selling establishments		Fuel and ice dealers		Retail florists		Miscellaneous retail stores		Not specified retail trade	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
14	14	40	12	79	5	355	214	184	78	45	32
—	—	5	—	—	—	—	—	12	—	—	—
7	7	29	6	6	—	—	—	60	26	17	6
—	—	—	—	—	—	7	—	55	41	21	21
—	—	—	—	51	—	—	—	7	—	—	—
—	—	—	—	—	—	—	—	6	—	—	—
—	—	—	—	—	—	327	186	12	—	7	5
7	7	—	—	5	5	—	—	6	—	—	—
—	—	6	6	—	—	21	21	26	11	—	—
—	—	—	—	—	—	—	—	—	—	—	—
17	6	3	3	—	—	26	5	2 599	354	13	—
—	—	3	3	—	—	—	—	133	34	11	—
6	6	—	—	—	—	26	5	19	—	—	—
—	—	—	—	—	—	—	—	23	8	—	—
5	—	—	—	—	—	—	—	2 410	307	2	—
6	—	—	—	—	—	—	—	14	5	—	—
—	—	—	—	—	—	—	—	—	—	—	—
102	85	38	38	7	6	27	14	456	230	198	85
—	—	10	10	6	6	—	—	80	64	31	31
17	—	—	—	1	—	15	2	151	48	153	54
85	85	15	15	—	—	12	12	11	11	6	—
—	—	13	13	—	—	—	—	171	80	—	—
—	—	—	—	—	—	—	—	43	27	8	—
—	—	6	6	—	—	3	3	57	25	8	—
30	30	236	216	27	17	99	85	998	867	185	131
—	—	—	—	—	—	—	—	158	158	—	—
—	—	8	8	—	—	7	7	50	40	5	5
30	30	228	208	27	17	92	78	790	669	180	126
5	—	—	—	6	—	4	2	145	86	—	—
14	14	—	—	—	—	—	—	928	175	4	—
7	7	—	—	—	—	2	2	50	22	—	—
7	7	—	—	—	—	2	2	878	153	4	—
48	5	105	51	115	28	—	—	328	179	157	98
39	5	99	45	115	28	—	—	308	170	146	87
9	—	6	6	—	—	—	—	8	2	6	6
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	7	7	5	5
—	—	—	—	—	—	—	—	—	—	—	—
12	—	115	95	11	6	19	19	126	84	50	24
5	—	12	2	6	6	—	—	113	77	45	29
—	—	—	—	5	—	19	19	7	7	5	5
7	—	—	—	—	—	—	—	6	—	—	—
—	—	103	93	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	49	18	15	—
7	—	74	26	44	—	—	—	49	18	15	—
7	—	74	26	44	—	—	—	—	—	—	—
200	61	1 068	735	77	41	61 846	48 061	6 823	4 192	1 136	747
—	—	15	8	6	—	27	25	65	37	—	—
11	—	37	9	—	—	89	61	64	37	12	5
70	35	542	472	8	8	61 249	47 629	3 116	2 171	794	541
16	—	—	—	—	—	136	101	12	18	16	6
—	—	10	10	—	—	—	—	18	18	—	—
—	—	75	49	2	2	129	100	1 387	862	100	63
7	—	22	5	9	9	36	30	244	59	46	31
—	—	—	—	—	—	—	—	8	8	—	—
7	—	22	7	—	—	83	51	359	210	13	13
17	11	245	137	10	10	30	23	1 111	492	53	48
72	15	95	38	36	11	67	41	420	298	92	40
—	—	5	—	6	1	—	—	—	—	4	—
—	—	—	—	—	—	—	—	19	—	6	—

United States

Employed persons 16 years and over—Con.
Monogerial and professional specialty occupations—Con.
Professional specialty occupations—Con.
Natural scientists
Physicists and astronomers
Chemists, except biochemists
Atmospheric and space scientists
Geologists and geodesists
Physical scientists, n.e.c.
Agricultural and food scientists
Biological and life scientists
Forestry and conservation scientists
Medical scientists
Health diagnosing occupations
Physicians
Dentists
Veterinarians
Optometrists
Podiatrists
Health diagnosing practitioners, n.e.c.
Health assessment and treating occupations
Registered nurses
Pharmacists
Dietitians
Therapists
Physicians assistants
Physicians, postsecondary
Teachers, except postsecondary
Teachers, prekindergarten and kindergarten
Teachers, elementary and secondary school
Teachers, special education
Teachers, n.e.c.
Counselors, educational and vocational
Librarians, archivists, and curators
Librarians
Archivists and curators
Social scientists and urban planners
Economists
Psychologists
Sociologists
Social scientists, n.e.c.
Urban planners
Social, recreation, and religious workers
Social workers
Recreation workers
Clergy
Religious workers, n.e.c.
Lawyers and judges
Lawyers
Judges
Writers, artists, entertainers, and athletes
Authors
Technical writers
Designers
Musicians and composers
Actors and directors
Painters, sculptors, craft-artists, and artist printmakers
Photographers
Dancers
Artists, performers, and related workers, n.e.c.
Editors and reporters
Public relations specialists
Announcers
Athletes

Employed persons 16 years and over—Con.
Managerial and professional specialty occupations—Con.
Professional specialty occupations—Con.

Natural scientists	—
Physicists and astronomers	—
Chemists, except biochemists	—
Atmospheric and space scientists	—
Geologists and geodesists	—
Physical scientists, n.e.c.	—
Agricultural and food scientists	—
Biological and life scientists	—
Forestry and conservation scientists	—
Medical scientists	—
Health diagnosing occupations	—
Physicians	—
Dentists	—
Veterinarians	—
Optometrists	—
Podiatrists	—
Health diagnosing practitioners, n.e.c.	—
Health assessment and treating occupations	—
Registered nurses	—
Pharmacists	—
Dietitians	—
Therapists	—
Physicians' assistants	—
Teachers, postsecondary	—
Teachers, except postsecondary	—
Teachers, kindergarten and kindergarten	—
Teachers, elementary and secondary school	—
Teachers, special education	—
Teachers, n.e.c.	—
Counselors, educational and vocational	—
Librarians, archivists, and curators	—
Archivists and curators	—
Social scientists and urban planners	—
Economists	—
Psychologists	—
Sociologists	—
Social scientists, n.e.c.	—
Urban planners	—
Social, recreation, and religious workers	—
Social workers	—
Recreation workers	—
Clergy	—
Religious workers, n.e.c.	—
Lawyers and judges	—
Judges	—
Writers, artists, entertainers, and athletes	—
Authors	—
Technical writers	—
Designers	—
Musicians and composers	—
Actors and directors	—
Painters, sculptors, craft-artists, and artist printmakers	—
Photographers	—
Dancers	—
Artists, performers, and related workers, n.e.c.	—
Editors and reporters	—
Public relations specialists	—
Announcers	—
Athletes	—

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

Employed persons 16 years and over—Con.

547

Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

Employed persons 16 years and over—Con

Technical, sales, and administrative support occupations—Continued																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																</
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Employed persons 16 years and over—Con.

Service occupations	9 751	7 716	1 640	1 026	1 397	448	1 302	502	8 818	4 582	5 097	2 038
Private household occupations												
Protective service occupations	47	4	73	16	109	23	26		663	152	959	347
Supervisors, protective service occupations	6		5		6				51	21	52	
Supervisors, firefighting and fire prevention occupations												
Supervisors, police and detectives	6				6				51	21	52	
Supervisors, guards			5						17			
Firefighting and fire prevention occupations									10			
Freighting occupations												
Police and detectives												
Police and detectives, public service												
Sheriffs, bailiffs, and other law enforcement officers												
Correctional institution officers	41	4	68	16	103	23	26		595	131	907	347
Guards												
Crossing guards	41	4	68	16	103	23	26		588	131	907	347
Guards and police, except public service									7			
Protective service occupations, n.e.c.												
Service occupations	9 704	7 712	1 567	1 010	1 288	425	1 276	502	8 155	4 430	4 138	1 711
Food preparation and service occupations	8 256	7 119	906	665	155	55	17	17	1 487	1 024	1 298	927
Supervisors, food preparation and service occupations	660	406	69	30	22	12	32		68	40	32	6
Bar-tenders	29		13	13	25	5			44	8	16	
Waiters and waitresses	412	403	88	88	38	29			375	335	472	452
Cooks, except short order	1 963	1 580	254	194	36				446	298	405	224
Short-order cooks	84		6						38	15	9	
Food counter, fountain and related occupations	158	120	94	40	5				88	15	9	
Kitchen workers, food preparation	1 004	84	957	84					77	52	37	82
Waiters and waitresses	375	335	115	100	24	9			46	32	64	41
Miscellaneous food preparation occupations	3 571	3 273	183	110	5				258	156	167	70
Health service occupations	119	102	43	33					613	487	22	15
Dental assistants	8								12			
Health aides, except nursing	105	88	27	17					415	370	22	15
Nursing aides, orderlies, and attendants	6		16						186	105		
Cleaning and building service occupations, except household	1 047	264	360	77	1 059	327	1 136	385	4 270	1 375	2 499	484
Supervisors, cleaning and building service workers	122		29		59	16			78	4	37	
Maid and housemen	120	60	19	6	211	183	252	126	567	287	112	
Janitors and cleaners	898	204	304	69	789	128	875	234	3 573	1 067	2 139	346
Behavior operators	7		8	2					52	17	50	26
Pest control occupations												
Personal service occupations	282	227	258	235	74	43	104	81	1 785	1 544	319	285
Supervisors, personal service occupations			17	4	5		12	17	17			
Barbers	26	6									17	
Hairdressers and cosmetologists			164	159	17	17			1 072	983	141	132
Attendants, amusement and recreation facilities	16	3	12	7	9	4			43	9	2	2
Guides			6	6	9	4	4	4	18	18		
Ushers									41	7		
Public transportation attendants												
Baggage porters and bellhops					4				7			
Welfare service aides												
Child care workers, except private household	7	7	12	12			40	17	311	289	13	13</

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Retail trade—Con											
Vending machine operators		Direct selling establishments		Fuel and ice dealers		Retail florists		Miscellaneous retail stores		Not specified retail trade	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.											
Farming, forestry, and fishing occupations—Con											
Forestry and logging occupations											
—	—	—	—	193	—	2	2	6	—	11	4
—	—	—	—	15	—	—	—	—	—	—	—
—	—	—	—	10	—	2	2	6	—	11	4
—	—	—	—	168	—	—	—	—	—	—	—
—	—	—	—	10	—	19	1	31	—	12	—
—	—	—	—	10	—	—	—	—	—	—	—
—	—	—	—	10	—	19	1	31	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—										

Employed persons 16 years and over—Con.

Farming, forestry, and fishing occupations—Con
 Forestry and logging occupations
 Supervisors, forestry and logging workers
 Forestry workers, except logging
 Timber cutting and logging occupations
 Fishers, hunters, and trappers
 Captains and other officers, fishing vessels
 Fishers
 Hunters and trappers
 Precision production, craft, and repair occupations
 Mechanics and repairers
 Supervisors, mechanics and repairers
 Mechanics and repairers, except supervisors
 Vehicle and mobile equipment mechanics and repairers
 Automobile mechanics
 Bus, truck, and stationary engine mechanics
 Aircraft engine mechanics
 Small engine repairers
 Automobile body and related repairers
 Aircraft mechanics, except engine
 Heavy equipment mechanics
 Farm equipment mechanics
 Industrial machinery repairers
 Machinery maintenance occupations
 Electrical and electronic equipment repairers
 Electronic repairers, communications and industrial equipment
 Data processing equipment repairers
 Household appliance and power tool repairers
 Telephone line installers and repairers
 Telephone installers and repairers
 Miscellaneous electrical and electronic equipment repairers
 Heating, air conditioning, and refrigeration mechanics
 Miscellaneous mechanics and repairers
 Camera, watch, and musical instrument repairers
 Locksmiths and safe repairers
 Office machine repairers
 Mechanical controls and valve repairers
 Elevator installers and repairers
 Millwrights
 Specialized mechanics and repairers, n.e.c.
 Not specified mechanics and repairers

Construction trades
 Supervisors, construction occupations
 Supervisors, brickmasons, stonemasons, and tile setters
 Supervisors, carpenters and related workers
 Supervisors, electricians and power transmission installers
 Supervisors, painters, paperhangers, and plasterers
 Supervisors, plumbers, pipefitters, and steamfitters
 Supervisors, n.e.c.
 Construction trades, except supervisors
 Brickmasons and stonemasons
 Tile setters, hard and soft
 Carpet installers
 Carpenters
 Drywall installers
 Electricians
 Electric power installers and repairers
 Painters, construction and maintenance
 Paperhangers

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

United States

United States

Vending machine operators		Direct selling establishments		Fuel and ice dealers		Retail florists		Miscellaneous retail stores		Not specified retail trade	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.											
Precision production, craft, and repair occupations—Con.											
Construction trades—Con.											
Construction trades, except supervisors—Con.											
13	—	18	—	501	—	9	—	8	—	38	—
6	—	—	—	—	—	—	—	107	—	—	3
6	—	—	—	5	—	—	—	5	—	—	—
—	—	—	—	—	—	—	—	223	54	30	—
—	—	—	—	—	—	—	—	21	—	13	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	11	—	—	—	4	—	—	—
—	—	—	—	24	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	12	—	—	—
—	—	—	—	7	—	6	—	—	—	6	—
—	—	—	—	14	—	—	—	—	—	—	—
—	—	—	—	16	—	—	—	1 011	18	47	6
—	—	19	6	132	—	—	—	22	—	15	—
—	—	—	—	12	—	—	—	—	—	—	—
—	—	—	—	2	—	—	—	—	—	—	—
—	—	19	6	96	—	—	—	22	—	—	—
—	—	—	—	22	—	—	—	—	—	7	—
2 619	768	1 744	794	2 279	—	1 108	—	32 842	—	5 046	2 287
2 217	536	1 427	693	1 803	—	1 042	420	6 306	12 418	3 355	1 349
110	7	70	9	227	—	23	398	1 841	2 347	336	82
—	—	—	—	—	—	—	6	29	974	34	—
—	—	—	—	—	—	—	—	7	7	—	—
74	7	40	3	42	—	7	—	268	45	132	—
—	—	—	—	102	—	16	6	—	—	13	—
—	—	—	—	—	—	—	—	11	—	5	—
5	—	—	—	—	—	—	—	5	—	—	—
—	—	—	—	—	—	—	—	22	7	—	—
22	—	20	2	—	—	—	—	304	165	79	21
—	—	10	4	—	—	—	—	1 142	725	66	56
9	—	—	—	83	—	—	—	42	25	7	—
—	—	—	—	—	—	—	—	11	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
3	2	7	2	45	—	—	—	2 151	275	35	7
—	—	—	—	—	—	—	—	—	—	—	—
3	2	7	2	26	—	—	—	532	27	28	—
—	—	—	—	19	—	—	—	1 576	240	7	—
—	—	7	—	—	—	—	—	43	8	—	—
—	—	—	—	—	—	—	—	—	—	—	—
63	37	55	39	9	9	13	13	1 139	773	730	629
31	31	43	39	9	9	13	13	643	617	493	464
5	—	10	—	—	—	—	—	57	34	211	147
14	—	2	—	—	—	—	—	268	62	—	—
7	—	—	—	—	—	—	—	155	46	—	—
6	6	—	—	—	—	—	—	—	—	6	—
—	—	—	—	—	—	—	—	16	14	20	12
25	25	20	20	21	—	18	3	21 155	7 972	88	30
—	—	—	—	7	—	—	—	913	177	16	10
—	—	—	—	—	—	—	—	81	44	—	—
6	6	20	20	5	—	15	—	20 010	7 691	42	11
—	—	—	—	—	—	—	—	57	26	—	—
6	6	—	—	—	—	—	—	26	21	9	9
13	13	—	—	9	—	—	—	—	—	6	—
—	—	—	—	—	—	3	3	68	13	15	—
—	—	—	—	—	—	—	—	—	—	—	—
161	161	133	22	14	—	12	—	64	30	416	175
63	63	66	33	3	—	12	—	32	6	298	64
119	85	38	17	11	—	28	—	28	22	111	104
13	13	29	7	—	—	4	—	7	2	11	7
—	—	7	7	8	—	—	—	54	32	12	—
—	—	7	7	8	—	—	—	54	32	12	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—</				

Employed persons 16 years and over—Con.

OCCUPATION BY INDUSTRY

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

United States

United States

Retail trade—Con.

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.

Machine operators, assemblers, and inspectors—Con.

Machine operators and tenders, except precision—Con.

Machine operators, assorted materials—Con.

Falling machine operators

Food and beverage operators

Food and beverage operators, except food

Grocery and vending machine operators

Slicing and cutting machine operators

Meat and poultry processors

Meat and poultry processors, except machine operators

Photographic process machine operators

Miscellaneous machine operators, n.e.c.

Machine operators, not specified

Fabricators, assemblers, and hand working occupations

Welders and cutters

Solders and brazers

Assemblers

Hand cutting and trimming occupations

Hand molding, casting, and forming occupations

Hand painting, coating and decorating occupations

Hand engraving and printing occupations

Hand grinding and polishing occupations

Miscellaneous hand working occupations

Production inspectors, testers, samplers, and weighers

Production inspectors, checkers, and examiners

Production testers

Production samplers and weighers

Graders and sorters, except agricultural

Transportation and material moving occupations

Motor vehicle operators

Supervisors, motor vehicle operators

Truck drivers, heavy

Truck drivers, light

Truck drivers, light

Driver-sales workers

Bus drivers

Taxicab drivers and chauffeurs

Parking lot attendants

Motor transportation occupations, n.e.c.

Rail transportation occupations

Railroad conductors and yardmasters

Locomotive operating occupations

Railroad brake, signal, and switch operators

Rail vehicle operators, n.e.c.

Water transportation occupations

Ship captains and mates, except fishing boats

Sailors and deckhands

Marine engineers

Bridge, lock, and lighthouse tenders

Material moving equipment operators

Supervisors, material moving equipment operators

Operating engineers

Longshore equipment operators

Hoist and winch operators

Crane and tower operators

Excavating and loading machine operators

Grader, dozer, and scraper operators

Industrial truck and tractor equipment operators

Miscellaneous material moving equipment operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Retail trade—Con											
Vending machine operators		Direct selling establishments		Fuel and ice dealers		Retail florists		Miscellaneous retail stores		Not specified retail trade	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.											
1 537	554	2 454	1 427	3 082	179	3 010	1 424	13 562	4 055	7 184	1 944
19	8	3	—	18	—	5	5	26	13	70	34
8	—	3	—	30	—	4	4	23	—	—	—
—	—	—	—	23	12	—	—	26	—	13	—
—	—	—	—	23	12	—	—	26	—	13	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
8	—	14	—	46	—	5	—	117	11	54	—
6	—	9	9	24	—	14	2	174	38	48	8
351	50	503	115	619	26	352	71	5 311	1 440	3 723	1 012
—	—	—	—	—	—	—	—	19	10	7	—
—	—	—	—	—	—	—	—	—	—	—	—
197	40	278	98	124	7	276	53	3 605	1 294	3 246	969
5	5	12	12	24	—	—	—	133	63	47	27
149	5	213	5	471	19	76	18	1 554	73	423	16
—	—	31	7	487	31	20	—	162	20	165	37
141	34	9	—	49	3	32	11	160	34	143	21
417	339	789	670	40	9	238	142	1 636	902	573	348
587	123	1 096	626	1 746	98	2 340	1 189	5 927	1 597	2 395	484

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers,
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight stock and material handlers
 Freight stock and material handlers
 Garbage collectors
 Stewards
 Stock handlers and baggers
 Machine feeders and offbearers
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

United States

[illegible]

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States										Finance, insurance, and real estate									
	Total		Banking		Savings and loan associations		Credit agencies, n.e.c.		Security, commodity brokerage, and investment companies		Insurance		Real estate, including real estate-insurance-law offices		Total		Total		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
1 208	501	266	146	36	4	7	275	69	320	214	257	61								
19	5	—	—	—	—	—	—	—	—	—	—	—								
408	191	93	45	2	2	—	9	68	188	116	48	23								
88	53	25	6	2	2	—	6	10	34	26	11	—								
187	66	16	19	—	—	—	7	116	18	11	30	—								
38	36	83	22	32	—	—	20	23	15	15	39	17								
210	62	13	13	—	—	—	12	11	18	6	22	9								
176	24	44	16	—	—	—	—	29	35	35	66	3								
127	44	17	—	—	—	—	—	7	7	—	4	—								
35	20	17	16	—	—	—	—	—	—	—	—	—								
1 298	409	134	41	30	16	—	—	61	931	321	142	16								
1 146	357	101	15	23	9	—	—	55	855	309	112	9								
48	18	6	6	—	—	—	—	—	35	12	7	—								
23	7	—	—	—	—	—	—	6	—	—	17	7								
32	7	7	—	7	7	—	—	—	18	—	—	—								
29	20	—	—	—	—	—	—	—	23	—	6	—								
20	20	20	20	—	—	—	—	—	—	—	—	—								
5 253	4 779	872	780	13	13	38	46	103	3 886	3 586	333	289								
4 486	4 323	770	716	13	13	29	29	70	3 384	3 293	220	212								
178	98	17	17	—	—	—	—	—	148	52	13	—								
128	69	23	13	—	—	—	17	—	46	46	30	—								
252	157	56	28	—	—	—	—	26	127	79	43	37								
209	132	6	6	—	—	—	—	7	181	116	15	—								
612	268	73	54	21	7	—	11	38	222	82	247	118								
2 114	925	362	240	77	73	78	624	95	550	257	406	219								
30	10	8	—	—	—	—	—	12	10	10	—	—								
37	33	—	—	—	—	—	—	—	—	—	—	—								
2 041	882	354	240	77	73	78	624	81	540	247	35	31								
2 817	437	56	20	50	40	24	57	144	267	138	10	—								
2 018	1 518	555	426	36	17	51	98	421	829	660	79	69								
1 744	1 419	478	404	36	17	34	34	372	768	620	56	56								
274	99	77	22	—	—	—	64	49	61	40	23	13								
14 164	5 212	5 277	2 162	1 201	295	203	601	1 612	4 209	1 542	1 264	526								
13 478	4 939	5 217	2 141	1 164	289	191	570	1 587	3 952	1 418	988	428								
236	106	20	2	6	6	6	12	19	160	80	19	6								
23	6	—	—	—	—	—	—	6	17	—	—	—								
103	57	34	19	14	6	—	—	—	45	28	10	4								
324	324	6	—	17	—	6	—	—	35	10	—	—								
3 704	2 558	358	266	185	144	63	101	141	617	371	247	88								
3 183	2 291	303	233	145	127	55	93	118	515	329	2 302	1 654								
304	214	22	22	18	17	8	8	2	45	33	2 009	1 495								
Clergy	205	33	11	12	—	—	—	14	57	9	89	27								
Religious workers, n.e.c.	12	—	—	—	—	—	—	—	—	—	12	—								
Lawyers and judges	16 159	2 962	2 680	88	88	139	676	1 664	8 333	1 426	2 422	473								
Lawyers	16 159	2 962	2 680	88	88	139	676	1 664	8 333	1 426	2 422	473								
Judges	—	—	—	—	—	—	—	—	—	—	—	—								
Writers, artists, entertainers, and athletes	21 073	11 636	5 919	953	517	466	915	2 060	7 095	3 652	4 131	2 591								
Authors	296	146	114	5	5	18	72	75	829	29	6	—								
Technical writers	1 746	1 106	468	66	60	49	188	48	829	577	133	73								
Designers	2 813	1 282	579	282	19	48	124	340	914	390	792	394								
Musicians and composers	132	47	23	—	—	—	—	44	12	6	53	14								
Actors and directors	147	59	36	—	—	—	—	9	81	24	21	—								
Painters, sculptors, craft-artists, and artist printmakers	1 275	674	238	136	14	20	48	116	643	340	205	112								
Photographers	674	276	130	58	—	14	47	15	194	60	288	138								
Dancers	34	21	—	—	—	—	—	—	—	—	—	—								
Artists, performers, and related workers, n.e.c.	339	176	55	—	4	4	4	50	67	7	13	—								
Editors and reporters	3 328	2 339	788	571	—	71	106	520	1 238	49	154	69								
Public relations specialists	10 178	5 457	3 481	1 973	345	242	489	662	3 004	1 320	1 911	468								
Announcers	10	—	5	—	—	—	5	—	—	—	—	—								
Athletes	101	33	7	2	—	—	6	38	—	14	19	—								

Employed persons 16 years and over—Con.
Managerial and professional specialty occupations—Con.
Professional specialty occupations—Con.
Natural scientists

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States														
Finance, insurance, and real estate														
	Total		Banking		Savings and loan associations		Credit agencies, n.e.c.		Security, commodity brokerage, and investment companies		Insurance		Real estate, including real estate—insurance—law offices	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Technical, sales, and administrative support occupations	4 115 381	2 788 017	1 168 805	992 065	117 984	103 212	179 174	145 016	246 889	107 289	1 537 456	942 491	865 073	497 944
Technicians and related support occupations	79 101	36 230	18 616	7 425	1 546	664	2 676	1 186	5 243	2 120	36 791	17 347	14 229	7 488
Medical technologists and technicians	1 656	1 252	420	329	11	6	27	12	40	27	162	78	86	80
Health laboratory technicians and technicians	384	239	115	84	11	6	6	6	—	—	239	137	13	6
Dental hygienists	18	11	—	—	—	—	—	—	—	—	18	11	—	—
Health record technicians and technicians	76	61	10	10	—	—	15	—	—	—	51	51	—	—
Radiologic technicians	80	70	9	9	—	—	—	—	—	—	50	44	17	17
Licensed practical nurses	756	689	193	160	—	—	6	6	27	27	479	445	51	51
Health technologists and technicians, n.e.c.	342	182	89	66	—	—	—	—	13	—	225	110	15	6
Engineering and related technologists and technicians	5 897	1 953	1 261	377	107	38	162	63	523	191	2 077	977	1 767	307
Electrical and electronic technicians	2 252	826	742	171	66	30	87	38	243	77	924	468	190	42
Industrial engineering technicians	214	116	75	52	—	—	—	—	12	—	111	64	16	—
Mechanical engineering technicians	52	35	19	11	—	—	7	7	4	—	8	8	14	9
Engineering technicians, n.e.c.	872	298	117	46	14	—	18	—	78	29	334	184	311	99
Drafting occupations	1 984	558	274	74	27	8	50	18	182	85	576	209	875	164
Surveying and mapping technicians	523	120	34	23	—	—	—	—	4	—	124	44	361	53
Science technicians	1 077	612	167	93	5	—	66	20	266	62	476	375	97	62
Biological technicians	114	34	21	—	5	—	34	2	15	6	27	20	12	6
Chemical technicians	102	78	—	—	—	—	—	—	—	—	70	46	32	32
Science technicians, n.e.c.	861	500	146	93	—	—	32	18	251	56	379	309	53	24
Technicians, except health, engineering, and science	70 471	32 413	16 768	6 626	1 423	620	2 421	1 091	4 414	1 840	33 176	15 197	12 269	7 039
Airplane pilots and navigators	592	8	161	6	1	—	20	—	89	—	178	2	143	—
Air traffic controllers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators	472	287	63	25	19	6	7	—	202	154	133	67	48	35
Computer programmers	39 749	14 536	13 505	4 615	1 008	354	1 658	570	1 821	528	20 933	8 186	824	283
Tool programmers, numerical control	715	282	307	135	26	—	36	6	62	12	256	115	28	14
Legal assistants	21 087	12 677	778	487	120	108	428	371	541	288	8 813	4 889	10 407	6 334
Legal assistants, n.e.c.	7 856	4 623	1 954	1 158	249	152	272	144	1 699	858	2 863	1 938	819	373
Technicians, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales occupations	1 388 853	490 419	26 012	14 377	6 331	3 063	16 804	9 873	129 526	22 980	574 334	146 213	635 846	293 913
Supervisors and proprietors, sales occupations	25 828	4 992	1 518	579	572	279	1 270	597	7 806	1 035	8 522	1 730	6 440	972
Salvaged	20 275	4 353	1 513	579	572	279	1 270	597	7 806	1 035	8 522	1 730	6 440	972
Self-employed	5 553	639	5	—	—	—	16	—	2 859	313	472	62	2 201	264
Sales representatives, finance and business services	1 315 666	450 665	13 086	4 912	4 039	1 152	7 718	1 930	117 494	18 815	557 402	138 205	615 727	285 651
Insurance sales occupations	558 525	140 717	1 009	407	207	173	309	188	1 117	165	542 684	134 204	12 899	5 580
Real estate sales occupations	425 524	285 104	2 957	424	2 782	360	1 084	201	1 738	510	14 662	3 882	602 301	279 727
Securities and financial services sales occupations	130 551	24 146	8 830	3 941	990	587	6 267	1 530	114 464	18 088	—	—	—	—
Advertising and related sales occupations	—	—	—	—	60	32	58	11	175	52	256	119	527	344
Sales occupations, other business services	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	527	74	33	16	—	—	—	—	73	—	231	19	190	39
Sales engineers	527	74	33	16	—	—	—	—	73	—	231	19	190	39
Sales representatives, mining, manufacturing, and wholesale	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services	44 647	34 251	11 086	8 640	1 699	1 611	7 797	7 530	4 092	3 088	6 865	6 147	13 108	7 235
Sales workers, commodities	9 722	4 364	12	9	—	—	—	—	41	—	—	—	9 655	4 351
Sales counter clerks	1 175	826	61	39	15	8	238	159	29	13	270	134	562	473
Cashiers	30 816	26 936	10 815	8 459	1 648	1 575	7 375	7 259	3 652	2 905	5 386	5 082	1 656	1 656
Street and door-to-door sales workers	2 636	1 927	104	58	21	13	158	94	377	170	1 093	873	883	719
News vendors	298	198	94	75	15	15	26	18	13	—	102	54	48	36
Sales related occupations	2 185	437	289	230	21	21	19	16	61	42	1 614	112	181	16
Demonstrators, promoters and models, sales	327	261	279	225	21	21	7	6	6	6	5	—	9	3
Auctioneers	131	7	—	—	—	—	2	—	—	—	—	—	—	—
Sales support occupations, n.e.c.	1 727	169	5	5	—	—	10	10	12	36	1 609	112	60	6
Administrative support occupations, including clerical	2 647 427	2 261 368	1 124 177	970 263	110 107	99 485	159 694	133 957	112 120	82 189	926 331	778 931	214 998	196 543
Supervisors, administrative support occupations	175 156	108 782	61 687	41 467	3 367	5 343	12 481	6 702	7 569	3 193	78 557	46 570	7 695	5 287
Supervisors, general office	124 391	84 884	46 157	33 093	5 263	6 354	6 411	4 070	5 414	2 360	54 912	36 438	6 002	4 289
Supervisors, computer equipment operators	6 283	2 001	2 044	907	214	212	377	194	243	125	2 611	538	4 438	688
Supervisors, financial records processing	34 906	17 033	9 890	6 210	1 165	660	4 381	1 934	1 247	562	16 810	6 769	1 413	898
Chief communications operators	666	406	253	125	58	51	59	29	34	12	83	57	9	—
Supervisors: distribution, scheduling, and adjusting clerks	8 910	4 458	2 573	1 120	205	106	1 583	598	294	134	3 941	2 468	157	32
Computer equipment operators	63 440	32 482	30 003	16 523	2 027	1 189	3 908	2 532	3 423	1 669	22 412	13 251	1 885	1 318
Computer operators	58 934	33 520	27 345	14 884	1 980	1 157	3 635	2 346	3 251	1 543	20 924	12 349	1 779	1 227
Peripheral equipment operators	4 726	2 962	2 640	1 639	47	32	273	172	172	126	1 488	902	106	91

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States													
	Finance, insurance, and real estate													
	Total		Banking		Savings and loan associations		Credit agencies, n.e.c.		Security, commodity brokerage, and investment companies		Insurance		Real estate, including real estate—insurance—law offices	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Technical, sales, and administrative support occupations—Con.														
Administrative support occupations, including dental—Con.														
Secretaries, stenographers, and typists	648 523	641 862	149 578	147 957	18 021	17 679	37 392	37 106	38 981	38 331	292 286	289 771	112 265	111 018
Secretaries	533 174	528 266	127 521	126 306	15 910	15 638	29 721	29 507	34 805	34 355	222 044	220 777	102 749	101 683
Stenographers	4 940	4 868	846	822	74	66	414	414	140	140	3 044	3 017	422	409
Typists	110 409	108 728	21 211	20 829	2 037	1 975	7 257	7 185	4 036	3 836	66 774	65 977	9 094	8 926
Information clerks	80 065	72 284	31 827	28 114	4 018	3 754	9 881	8 655	4 199	3 319	16 877	16 104	13 263	12 336
Interviewers	29 977	25 054	19 371	16 286	1 999	1 777	6 111	5 047	4 411	2 571	1 322	1 093	763	594
Hotel clerks	209	78	—	—	—	—	—	—	—	—	—	—	—	—
Transportation ticket and reservation agents	698	554	210	157	26	20	80	65	28	25	237	200	117	87
Receptionists	39 125	38 212	9 151	8 980	1 650	1 638	3 041	3 004	2 573	2 446	12 132	11 867	10 578	10 277
Information clerks, n.e.c.	10 056	8 386	3 095	2 691	343	319	649	539	1 187	591	3 186	2 944	1 596	1 302
Records processing occupations, except financial	137 817	119 219	33 724	27 836	2 520	2 309	4 601	4 230	7 122	3 773	86 725	78 487	3 125	2 584
Classified-head clerks	424	325	91	53	24	6	11	3	4	4	157	136	137	123
Correspondence clerks	6 461	5 555	749	634	34	27	174	139	180	105	5 276	4 809	48	41
Order clerks	8 319	6 036	2 612	2 066	255	211	661	560	2 107	1 944	2 327	1 962	357	273
Personal clerks, except payroll and timekeeping	26 203	23 817	1 284	1 146	184	165	355	334	215	182	23 763	21 608	402	382
Library clerks	573	475	186	137	10	10	19	9	126	106	207	189	25	14
File clerks	60 033	54 476	16 619	14 981	826	759	2 067	1 925	1 890	1 399	36 788	33 895	1 843	1 517
Records clerks	35 804	28 535	12 183	9 019	1 187	1 131	1 314	1 250	2 600	1 033	18 207	15 868	313	234
Financial records processing occupations	337 721	304 735	160 331	145 130	8 727	7 921	22 427	19 527	14 618	11 062	92 162	84 904	39 456	36 191
Bookkeepers, accounting, and auditing clerks	257 397	231 890	122 205	110 920	8 026	7 310	20 939	18 233	13 318	10 100	55 122	50 512	37 787	34 815
Payroll and timekeeping clerks	8 193	7 408	3 231	2 846	286	275	674	628	507	422	2 577	2 430	918	807
Billing clerks	7 254	6 462	1 544	1 261	159	116	381	324	469	370	4 364	4 073	337	318
Cash and rate clerks	29 223	26 740	513	358	50	27	109	60	209	85	28 080	26 090	262	120
Billing, posting, and calculating machine operators	35 654	32 235	32 838	29 745	206	193	324	282	115	85	2 019	1 799	152	131
Duplicating, mail, and other office machine operators	11 954	8 191	6 585	4 307	299	211	647	504	551	298	3 473	2 710	399	161
Duplicating machine operators	1 162	637	346	172	24	7	44	21	109	61	564	339	75	37
Mail preparing and paper handling machine operators	518	331	256	187	18	6	64	24	14	8	157	97	9	9
Office machine operators, n.e.c.	10 274	7 223	5 983	3 948	257	198	539	459	428	229	2 752	2 274	315	115
Communications equipment operators	15 452	14 492	7 277	7 096	634	595	639	597	1 020	926	4 062	3 746	1 820	1 532
Telephone operators	14 342	13 712	6 764	6 658	634	595	618	576	893	808	3 648	3 552	1 785	1 523
Telegraphers	342	275	312	289	—	—	5	5	110	101	20	20	6	6
Communications equipment operators, n.e.c.	768	505	312	289	—	—	16	16	17	17	394	174	29	9
Mail and message distributing occupations	44 890	17 274	19 522	4 804	1 214	616	1 394	764	5 285	974	14 877	9 175	2 598	941
Postal clerks, except mail carriers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mail carriers, postal service	28 381	14 242	10 228	3 473	862	576	996	685	1 798	406	13 105	8 552	1 392	550
Mail clerks, except postal service	16 509	3 032	9 294	1 331	352	40	398	79	3 487	568	1 772	823	1 206	391
Messengers	31 585	18 901	11 144	6 246	885	541	1 532	1 053	2 997	1 227	12 774	8 838	2 252	996
Material recording, scheduling, and distributing clerks	890	452	227	67	5	2	29	6	126	38	328	252	175	87
Dispatchers	9 238	6 453	3 160	2 072	175	162	351	260	644	242	4 266	3 338	642	379
Production coordinators	3 716	1 444	1 367	502	69	62	272	169	504	210	1 133	445	371	86
Traffic, shipping, and receiving clerks	8 706	3 270	3 018	959	427	188	390	208	1 329	527	2 832	1 145	710	243
Stock and inventory clerks	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Merchandise readers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Weights, measurers, and checkers	2 154	1 805	369	269	13	6	38	25	50	27	1 626	1 445	58	33
Samplers	68	61	11	11	—	—	3	3	12	12	28	7	7	7
Expeditors	6 283	5 089	2 895	2 300	182	151	407	360	300	150	2 265	1 992	234	136
Material recording, scheduling, and distributing clerks, n.e.c.	530	327	97	66	7	—	42	22	32	21	296	193	56	25
Adjusters and investigators	238 897	151 353	36 124	26 100	6 381	5 077	24 962	16 618	2 090	1 142	165 096	99 681	4 244	2 735
Insurance adjusters, examiners, and investigators	163 586	98 407	—	—	—	—	—	—	—	—	163 586	98 407	—	—
Investigators and adjusters, except insurance	53 668	40 983	28 207	21 729	5 759	4 805	16 159	12 442	1 723	959	—	—	1 820	1 048
Eligibility clerks, social welfare	763	641	68	68	—	—	26	26	26	26	215	203	370	299
Bill and account collectors	20 880	11 322	7 823	4 303	622	272	8 745	4 131	341	157	1 295	1 071	2 054	1 388
Miscellaneous administrative support occupations	861 707	767 793	576 373	514 663	58 014	54 050	39 830	35 669	24 265	16 275	137 230	125 694	25 995	21 442
General office clerks	211 958	183 861	65 626	55 771	4 611	4 115	17 367	15 770	15 030	9 355	89 561	82 247	19 763	16 603
Bank tellers	494 851	451 660	435 032	395 432	46 944	44 148	12 875	11 885	—	—	—	—	—	—
Proofreaders	3 045	2 660	1 788	1 514	36	36	50	50	113	58	953	913	105	89
Data-entry keyers	64 501	60 166	23 573	21 704	854	783	3 038	2 854	5 775	4 876	29 530	28 321	1 628	1 605
Statistical clerks	15 723	12 189	3 946	2 815	309	241	647	515	1 302	677	8 709	7 336	810	605
Teachers' aides	71 317	317	118	109	20	20	25	10	29	29	72	72	53	27
Administrative support occupations, n.e.c.	—	—	46 290	37 318	5 240	4 707	5 828	4 585	2 016	1 286	8 405	6 805	3 533	2 490

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Finance, insurance, and real estate													
	Total		Banking		Savings and loan associations		Credit agencies, n.e.c.		Security, commodity brokerage, and investment companies		Insurance		Real estate, including real estate—insurance—law offices	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	246 670	70 400	49 692	17 917	3 818	1 360	2 823	1 198	5 730	1 492	20 473	9 419	164 134	39 014
Private household occupations	35 394	3 058	15 086	1 181	609	28	322	7	2 542	321	2 592	289	14 223	1 232
Protective service occupations	1 491	119	562	38	7	—	19	2	223	4	123	—	557	75
Supervisors, protective service occupations	24	—	—	—	—	—	—	—	18	—	6	—	—	—
Supervisors, firefighting and fire prevention occupations	1 467	119	562	38	7	—	19	2	205	4	117	—	557	75
Supervisors, police and detectives	378	37	31	15	9	—	—	—	24	—	239	13	75	9
Firefighting and fire prevention occupations	264	22	9	—	9	—	—	—	2	—	231	13	13	9
Fire inspection and fire prevention occupations	114	15	22	15	—	—	—	—	22	—	8	—	62	—
Firefighting occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Guards	33 525	2 902	14 493	1 128	593	28	303	5	2 315	317	2 230	276	13 591	1 148
Crossing guards	76	17	8	—	—	—	—	—	15	15	6	—	47	—
Guards and police, except public service	32 883	2 674	14 430	1 114	593	28	303	5	2 260	296	2 212	270	13 085	961
Protective service occupations, n.e.c.	566	211	55	12	—	—	—	—	40	6	12	6	459	187
Service occupations, except protective and household	211 276	67 342	34 606	16 736	3 209	1 332	2 501	1 191	3 168	1 171	17 881	9 130	149 911	37 782
Food preparation and service occupations	11 057	7 641	3 639	2 691	225	191	179	108	482	242	3 105	2 281	3 427	2 128
Supervisors, food preparation and service occupations	942	529	334	216	27	22	6	—	61	7	246	113	268	171
Bartenders	433	237	162	153	47	—	—	—	17	3	23	15	231	66
Waiters and waitresses	2 534	2 003	613	489	29	29	48	33	159	107	603	526	1 064	819
Cooks, except short order	3 300	2 262	1 306	890	92	86	34	17	107	64	881	599	880	606
Short-order cooks	47	43	23	23	—	—	—	—	8	8	6	6	10	6
Food counter, fountain and related occupations	240	188	72	65	12	12	14	7	18	—	64	50	60	54
Kitchen workers, food preparation	414	358	136	115	18	16	12	4	34	—	147	129	99	82
Waiters and waitresses, assistants	737	437	187	160	6	6	21	10	34	18	214	182	275	61
Miscellaneous food preparation occupations	2 410	1 364	804	360	23	18	44	37	78	35	921	661	540	235
Health service occupations	2 201	1 952	479	369	—	—	13	13	48	43	1 020	951	641	576
Dental assistants	52	46	6	—	—	—	—	—	—	—	29	29	17	17
Health aides, except nursing	273	233	43	25	—	—	—	—	10	5	166	161	54	42
Nursing aides, orderlies, and attendants	1 876	1 673	430	344	—	—	13	13	38	38	825	761	570	517
Cleaning and building service occupations, except household	185 482	53 004	29 590	12 936	2 795	995	2 232	1 006	2 262	685	12 989	5 265	135 614	32 117
Supervisors, cleaning and building service workers	7 277	909	632	101	62	—	50	8	171	17	518	134	5 844	649
Maid and housemen	21 356	14 045	2 665	1 886	136	103	155	132	195	144	1 780	1 313	16 425	10 467
Janitors and cleaners	150 116	37 100	25 799	10 740	2 579	892	2 002	849	1 805	499	10 479	3 750	107 452	20 370
Elevator operators	6 383	899	494	209	18	—	25	17	91	25	185	68	570	580
Pest control occupations	350	51	—	—	—	—	—	—	—	—	27	—	323	51
Personal service occupations	12 536	4 745	898	740	189	146	77	64	376	201	767	633	10 229	2 961
Supervisors, personal service occupations	191	89	20	9	8	—	16	16	9	2	26	26	112	36
Barbers	59	26	6	—	—	—	—	—	—	—	8	—	51	26
Hairdressers and cosmetologists	266	212	26	26	—	—	—	—	—	—	—	—	232	186
Attendants, amusement and recreation facilities	576	275	20	13	10	—	15	9	48	5	38	38	445	210
Guides	242	169	26	13	—	—	11	11	41	41	23	14	141	90
Ushers	357	177	78	39	5	—	—	—	38	12	71	41	165	85
Public transportation attendants	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	52	—	3	—	—	—	—	—	—	—	6	—	43	—
Welfare service aides	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Child care workers, except private household	778	452	56	41	—	—	7	7	54	44	98	76	563	284
Personal service occupations, n.e.c.	10 015	3 345	663	599	166	146	28	21	186	97	495	438	8 477	2 044
Farming, forestry, and fishing occupations	30 974	1 562	459	65	99	14	95	16	311	25	378	23	29 632	1 419
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	48	32	20	13	7	7	—	—	—	—	—	—	21	12
Related agricultural occupations	30 769	1 512	419	40	92	7	95	16	289	25	369	23	29 505	1 401
Supervisors, related agricultural occupations	2 227	52	5	—	—	—	—	—	6	—	29	5	2 187	47
Groundskeepers and gardeners, except farm	28 463	1 438	386	40	92	7	95	16	283	25	334	12	27 273	1 338
Animal caretakers, except farm	27	11	—	—	—	—	—	—	—	—	—	—	27	11
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	52	11	28	—	—	—	—	—	—	—	—	6	18	5

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States													
	Finance, insurance, and real estate													
	Total		Banking		Savings and loan associations		Credit agencies, n.e.c.		Security, commodity brokerage, and investment companies		Insurance		Real estate, including real estate—insurance—law offices	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Farming, forestry, and fishing occupations—Con.														
Forestry and logging occupations	114	6	—	—	—	—	—	—	22	—	—	—	92	6
Supervisors, forestry and logging workers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Forestry workers, except logging	25	—	—	—	—	—	—	—	—	—	—	—	25	—
Timber cutting and logging occupations	89	6	—	—	—	—	—	—	22	—	—	—	67	6
Fishers, hunters, and trappers	43	12	20	12	—	—	—	—	—	—	9	—	14	—
Captains and other officers, fishing vessels	22	7	8	7	—	—	—	—	—	—	—	—	14	—
Fishers	7	—	—	—	—	—	—	—	—	—	—	—	—	—
Hunters and trappers	14	5	5	5	—	—	—	—	—	—	9	—	—	—
Precision production, craft, and repair occupations	77 105	7 911	8 450	2 236	785	241	1 491	372	2 700	351	8 452	2 326	55 227	2 385
Mechanics and repairers	18 317	1 021	2 581	380	173	33	424	40	751	65	1 711	245	12 677	258
Supervisors, mechanics and repairers	1 351	129	163	49	4	—	37	2	55	15	130	44	962	19
Mechanics and repairers, except supervisors	16 966	892	2 418	331	169	33	387	38	696	50	1 581	201	11 715	239
Vehicle and mobile equipment mechanics and repairers	1 793	53	155	25	20	—	155	20	166	15	205	21	1 092	7
Automobile mechanics	1 282	43	103	15	20	—	123	—	105	—	183	21	748	7
Bus, truck, and stationary engine mechanics	72	—	—	—	—	—	—	—	12	—	2	—	58	—
Aircraft engine mechanics	69	5	11	5	—	—	6	—	25	—	13	—	14	—
Small engine repairers	99	—	—	—	—	—	—	—	5	—	—	—	94	—
Automobile body and related repairers	91	—	7	—	—	—	22	—	—	—	7	—	55	—
Aircraft mechanics, except engine	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Heavy equipment mechanics	144	5	28	5	—	—	—	—	19	—	—	—	97	—
Farm equipment mechanics	36	—	6	—	—	—	4	—	—	—	—	—	26	—
Industrial machinery repairers	3 565	159	603	69	47	—	40	3	75	—	318	36	2 482	51
Machinery maintenance occupations	27	5	—	—	—	—	14	—	5	—	—	—	13	—
Electrical and electronic equipment repairers	1 598	252	430	125	17	6	39	16	114	11	233	74	765	20
Electronic repairers, communications and industrial equipment	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Data processing equipment repairers	327	46	89	34	—	—	—	—	49	2	63	10	126	—
Household appliance and power tool repairers	471	120	238	51	17	6	9	—	40	3	132	46	35	14
Telephone line installers and repairers	537	8	37	8	—	—	—	—	—	—	6	—	494	—
Telephone installers and repairers	—	61	66	32	—	—	19	5	19	6	32	18	97	—
Miscellaneous electrical and electronic equipment repairers	30	17	—	—	—	—	11	11	6	—	—	—	13	6
Heating, air conditioning, and refrigeration mechanics	2 125	21	181	—	25	—	21	—	61	—	229	—	1 608	21
Miscellaneous mechanics and repairers	7 658	402	1 049	112	60	27	118	14	280	39	596	70	5 755	140
Camera, watch, and musical instrument repairers	38	8	3	3	—	—	—	—	4	—	17	5	14	—
Locksmiths and safe repairers	338	—	135	—	—	—	—	—	43	—	31	—	129	—
Office machine repairers	447	26	283	20	21	—	10	—	6	—	100	6	27	—
Mechanical controls and valve repairers	12	—	—	—	—	—	2	—	3	—	—	—	7	—
Elevator installers and repairers	555	36	55	12	—	—	4	—	28	8	39	6	457	18
Millwrights	101	8	—	—	6	—	5	—	52	—	21	10	47	70
Specified mechanics and repairers, n.e.c.	3 541	88	186	8	—	—	30	—	32	31	145	43	1 122	70
Not specified mechanics and repairers	2 826	236	387	69	33	27	67	14	144	—	243	—	1 952	52
Construction trades	39 871	2 090	2 162	246	321	29	246	64	746	69	1 919	109	34 477	1 573
Supervisors, construction occupations	7 633	496	610	152	130	11	75	3	123	—	313	30	6 382	300
Supervisors, brickmasons, stonemasons, and tile setters	13	—	—	—	—	—	—	—	—	—	3	—	10	—
Supervisors, carpenters and related workers	272	—	47	—	—	—	—	—	7	—	22	—	196	—
Supervisors, electricians and power transmission installers	169	9	13	6	—	—	3	—	6	—	46	—	101	—
Supervisors, painters, paperhangers, and plasterers	105	—	—	—	—	—	—	—	—	—	—	—	105	—
Supervisors, plumbers, pipefitters, and steamfitters	40	7	—	—	—	—	—	—	—	—	—	—	27	—
Supervisors, n.e.c.	7 034	480	537	139	130	11	72	—	110	—	242	30	5 943	300
Construction trades, except supervisors	32 238	1 594	1 552	94	191	18	171	61	623	69	1 606	79	28 095	1 273
Brickmasons and stonemasons	324	7	8	—	—	—	7	—	19	—	20	—	55	—
Tile setters, hard and soft	75	20	—	—	—	—	—	—	—	—	20	—	55	—
Carpenter installers	189	21	26	—	—	—	—	—	—	—	9	—	154	21
Carpenters	10 782	310	592	31	82	—	78	15	157	2	542	6	9 331	256
Drywall installers	265	99	6	—	14	—	16	16	237	7	11	5	225	8
Electricians	2 861	99	468	25	14	—	14	10	41	41	465	17	1 663	6
Electrical power installers and repairers	43	13	19	7	—	—	6	—	6	—	—	—	12	—
Painters, construction and maintenance	12 694	937	302	7	50	4	7	—	167	26	361	20	11 807	907
Paperhangers	138	42	—	—	21	14	—	—	—	—	—	—	117	28

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Finance, insurance, and real estate														
	Total		Banking		Savings and loan associations		Credit agencies, n.e.c.		Security, commodity brokerage, and investment companies		Insurance		Real estate, including real estate—insurance—law offices	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con.														
Construction trades—Con.														
Construction trades, except supervisors—Con.														
Plasterers.....	372	—	11	9	—	—	—	—	9	—	6	—	340	—
Plumbers, pipefitters, and steamfitters.....	3 711	39	79	—	—	—	31	—	14	—	156	11	3 419	19
Concrete and terrazzo finishers.....	39	—	—	—	—	—	—	—	—	—	4	—	29	—
Glaziers.....	143	16	9	9	—	—	7	—	—	—	—	—	127	—
Insulation workers.....	63	—	6	—	—	—	5	—	—	—	24	—	28	—
Paving, surfacing, and tamping equipment operators.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Roofters.....	177	11	19	6	—	—	—	—	—	—	—	—	158	5
Sheetmetal duct installers.....	7	—	—	—	—	—	—	—	—	—	—	—	7	—
Structural metal workers.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Drillers, earth.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Construction trades, n.e.c.....	348	30	7	7	—	—	—	—	7	—	8	—	326	23
Supervisors, extractive occupations.....	164	22	22	10	—	—	8	—	91	—	—	—	43	12
Supervisors, nonmetallic mineral products.....	79	7	12	7	—	—	8	—	45	—	—	—	14	—
Drillers, oil well.....	23	—	7	—	—	—	—	—	16	—	—	—	—	—
Explosives workers.....	5	—	—	—	—	—	—	—	—	—	—	—	—	—
Mining machine operators.....	34	10	3	3	—	—	—	—	7	—	—	—	24	7
Mining occupations, n.e.c.....	23	5	—	—	—	—	—	—	18	—	—	—	5	—
Precision production occupations.....	18 753	4 778	3 485	1 600	—	179	813	268	1 112	217	4 822	1 972	8 030	542
Supervisors, production occupations.....	10 400	4 122	2 486	1 394	—	154	675	236	753	153	3 790	1 815	2 470	370
Precision metalworking occupations.....	822	72	125	25	—	8	42	7	69	7	98	12	480	21
Tool and die makers.....	28	6	—	—	—	—	—	—	2	—	14	6	12	—
Precision assemblers, metal.....	12	6	—	—	—	—	—	—	—	—	6	6	—	—
Machinists.....	406	43	107	20	—	8	29	—	59	7	54	6	149	16
Boilermakers.....	267	5	11	5	—	—	—	—	—	—	8	—	248	—
Precision grinders, filers, and tool sharpeners.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Patternmakers and model makers, metal.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lay-out workers.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Precious stones and metals workers (jewelers).....	19	—	5	—	—	—	—	—	—	—	—	—	14	—
Engravers, metal.....	30	—	—	—	—	—	—	—	—	—	8	—	22	—
Sheet metal workers.....	60	12	2	—	—	—	13	7	8	—	8	—	29	5
Miscellaneous precision metal workers.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Precision woodworking occupations.....	97	30	8	8	—	—	—	—	12	12	31	—	46	10
Patternmakers and model makers, wood.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cabinet makers and bench carpenters.....	65	—	—	—	—	—	—	—	—	—	29	—	36	—
Furniture and wood finishers.....	12	10	—	—	—	—	—	—	—	—	2	—	10	—
Miscellaneous precision woodworkers.....	20	20	8	8	—	—	—	—	12	12	—	—	—	—
Precision textile, apparel, and furnishings machine workers.....	157	61	15	10	—	—	—	—	8	8	63	24	71	19
Dressmakers.....	52	27	3	3	—	—	—	—	8	8	15	8	26	8
Tailors.....	62	25	12	7	—	—	—	—	—	—	18	7	32	11
Upholsterers.....	30	9	—	—	—	—	—	—	—	—	30	9	—	—
Shoe repairers.....	6	—	—	—	—	—	—	—	—	—	—	—	6	—
Apparel and fabric patternmakers.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous precision apparel and fabric workers.....	7	—	—	—	—	—	—	—	—	—	—	—	7	—
Precision workers, assorted materials.....	361	177	61	35	—	—	18	13	37	24	111	67	134	38
Hand molders and shapers, except jewelers.....	92	20	4	—	—	—	14	9	—	—	—	—	74	11
Patternmakers, lay-out workers, and cutters.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Optical goods workers.....	31	13	7	—	—	—	—	—	—	—	10	8	14	5
Dental laboratory and medical appliance technicians.....	44	31	11	5	—	—	—	—	—	—	26	26	7	—
Bookbinders.....	83	38	15	15	—	—	4	4	5	24	38	9	21	10
Electrical and electronic equipment assemblers.....	42	36	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous precision workers, n.e.c.....	69	39	24	15	—	—	—	—	8	8	37	24	18	12
Precision food production occupations.....	414	152	114	62	—	—	17	—	58	13	126	35	99	42
Butchers and meat cutters.....	216	30	49	10	—	—	17	—	40	13	52	58	7	35
Bakers.....	172	107	39	37	—	—	—	—	18	—	74	35	41	—
Food batchmakers.....	26	15	26	15	—	—	—	—	—	—	—	—	—	—
Precision inspectors, testers, and related workers.....	204	44	52	22	—	—	14	7	—	—	56	8	68	—
Inspectors, testers, and graders.....	166	25	28	10	—	—	7	7	—	—	—	8	—	—
Adjusters and calibrators.....	38	19	24	12	—	—	7	7	—	—	—	—	68	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States															
Finance, insurance, and real estate															
Total		Banking		Savings and loan associations		Credit agencies, n e c		Security, commodity brokerage, and investment companies		Insurance		Real estate, including real estate-insurance-law offices			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
Employed persons 16 years and over—Con.															
Precision production, craft, and repair occupations—Con.															
Plant and system operators—Con.															
Water and sewage treatment plant operators															
Power plant operators															
Stationary engineers															
Miscellaneous plant and system operators															
Operators, fabricators, and laborers															
Machine operators, assemblers, and inspectors															
Machine operators and tenders, except precision															
Metalworking and plastic working machine operators															
Lathe and turning machine set-up operators															
Lathe and turning machine operators															
Milling and planing machine operators															
Punching and stamping press machine operators															
Rolling machine operators															
Drilling and boring machine operators															
Grinding, abrading, buffing, and polishing machine operators															
Forging machine operators															
Numerical control machine operators															
Miscellaneous metal, plastic, stone, and glass working machine operators															
Fabricating machine operators, n.e.c.															
Metal and plastic processing machine operators															
Molding and casting machine operators															
Heat plating machine operators															
Heat treating equipment operators															
Miscellaneous metal and plastic processing machine operators															
Woodworking machine operators															
Wood lathe, routing, and planing machine operators															
Sawing machine operators															
Shaping and joining machine operators															
Nailing and tacking machine operators															
Miscellaneous woodworking machine operators															
Printing machine operators															
Printing machine operators															
Photoengravers and lithographers															
Typesetters and compositors															
Miscellaneous printing machine operators															
Textile, apparel, and furnishings machine operators															
Winding and twisting machine operators															
Knitting, looping, taping, and weaving machine operators															
Textile cutting machine operators															
Textile sewing machine operators															
Shoe machine operators															
Pressing machine operators															
Laundry and dry cleaning machine operators															
Miscellaneous textile machine operators															
Machine operators, assorted materials															
Cementing and gluing machine operators															
Extruding and forming machine operators															
Mixing and blending machine operators															
Separating, filtering, and clarifying machine operators															
Compressing and compacting machine operators															
Painting and paint spraying machine operators															
Roasting, cleaning, and pickling machine operators															

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States									
	Finance, insurance, and real estate									
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Operators, fabricators, and laborers—Con.										
Machine operators, assemblers, and inspectors—Con.										
Machine operators and tenders, except precision—Con.										
Machine operators, assorted materials—Con.										
Folding machine operators	24	6	—	—	—	—	8	—	—	—
Furnace, kiln, and oven operators, except food	1 252	30	48	—	—	—	23	—	11	6
Crushing and grinding machine operators	43	11	11	11	—	—	28	—	85	—
Slicing and cutting machine operators	233	36	78	20	8	—	18	—	67	8
Motion picture projectionists	27	6	—	—	6	—	—	—	6	—
Photographic process machine operators	1 367	840	363	215	31	49	136	74	140	62
Miscellaneous machine operators, n.e.c.	3 233	2 284	1 135	852	52	228	371	203	1 140	938
Machine operators, not specified	2 699	1 223	917	635	15	9	153	40	535	289
Fabricators, assemblers, and hand working occupations										
Welders and cutters	1 857	845	382	229	74	60	78	55	289	122
Solders and brazers	463	109	85	48	38	31	15	15	70	34
Assemblers	42	25	23	6	—	—	19	19	—	—
Hand cutting and trimming occupations	906	487	128	66	13	13	47	31	105	63
Hand molding, casting, and forming occupations	10	—	—	—	—	—	—	—	—	—
Hand painting, coating and decorating occupations	64	—	7	7	—	—	—	—	—	—
Hand engraving and printing occupations	113	40	18	7	—	—	—	—	—	—
Hand grinding and polishing occupations	—	—	—	—	—	—	—	—	—	—
Miscellaneous hand working occupations	259	184	121	102	23	16	16	9	73	40
Production inspectors, testers, samplers, and weighers										
Production inspectors, checkers, and examiners	2 320	874	706	415	27	—	97	27	357	87
Production testers	1 466	375	89	56	27	—	89	27	272	59
Production samplers and weighers	13	11	4	4	—	—	—	—	2	—
Graders and sorters, except agricultural	29	5	—	—	—	—	8	—	16	5
Miscellaneous material moving occupations	812	483	613	355	—	—	—	—	67	28
Transportation and material moving occupations										
Motor vehicle operators	13 377	1 481	4 449	742	383	50	801	18	1 601	58
Supervisors, motor vehicle operators	10 305	857	3 732	232	356	31	751	18	1 259	58
Truck drivers, heavy	3 251	131	51	13	6	—	11	—	17	—
Truck drivers, light	1 871	308	81	32	8	21	485	—	708	13
Bus and trolley drivers	299	111	142	79	7	—	49	—	174	12
Bus and trolley conductors	454	24	142	17	7	—	6	—	48	—
Taxi cab drivers and chauffeurs	1 941	108	787	19	50	10	117	12	295	13
Parking lot attendants	2 301	151	1 356	90	154	—	15	6	257	12
Motor transportation occupations, n.e.c.	58	—	29	—	—	—	8	—	17	5
Rail transportation occupations										
Railroad conductors and yardmasters	53	9	8	—	—	—	—	—	8	—
Locomotive operating occupations	35	9	2	—	—	—	—	—	8	—
Railroad brake, signal, and switch operators	18	—	6	—	—	—	—	—	—	—
Rail vehicle operators, n.e.c.	—	—	—	—	—	—	—	—	—	—
Water transportation occupations										
Ship captains and mates, except fishing boats	121	29	29	29	—	—	6	—	29	—
Sailors and deckhands	57	10	10	10	—	—	—	—	23	—
Marine engineers	39	—	—	—	—	—	—	—	6	—
Bridge, lock, and lighthouse tenders	6	—	—	—	—	—	—	—	—	—
Material moving equipment operators										
Supervisors, material moving equipment operators	2 898	586	680	461	19	19	44	—	305	—
Operating engineers	107	34	45	14	—	—	—	—	233	55
Longshore equipment operators	469	24	51	12	—	—	—	—	34	20
Hoist and winch operators	55	—	—	—	—	—	—	—	—	—
Crane and tower operators	101	7	15	7	—	—	—	—	40	—
Excavating and loading machine operators	298	9	8	—	—	—	7	—	23	—
Grader, dozer, and scraper operators	291	6	—	—	—	—	8	—	18	—
Industrial truck and tractor equipment operators	433	30	54	10	—	—	13	—	107	6
Miscellaneous material moving equipment operators	844	476	497	418	19	19	16	—	94	29
Real estate, including real estate—insurance-law offices										
	5	—	—	—	—	—	—	—	11	6
	1 096	30	—	—	—	—	—	—	85	—
	4	—	—	—	—	—	—	—	—	—
	46	—	—	—	—	—	—	—	67	8
	15	—	—	—	—	—	—	—	6	—
	125	38	—	—	—	—	—	—	140	62
	307	98	—	—	—	—	—	—	1 140	938
	688	64	—	—	—	—	—	—	535	289
	586	51	—	—	—	—	—	—	448	328
	221	—	—	—	—	—	—	—	34	15
	—	—	—	—	—	—	—	—	—	—
	243	29	—	—	—	—	—	—	370	285
	5	—	—	—	—	—	—	—	—	—
	66	13	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—
	11	9	—	—	—	—	—	—	15	8
	364	115	—	—	—	—	—	—	769	230
	333	102	—	—	—	—	—	—	656	131
	—	—	—	—	—	—	—	—	7	7
	—	—	—	—	—	—	—	—	5	5
	31	13	—	—	—	—	—	—	101	87
	4 836	451	—	—	—	—	—	—	1 307	162
	3 133	391	—	—	—	—	—	—	1 074	107
	19	—	—	—	—	—	—	—	17	—
	1 179	69	—	—	—	—	—	—	301	11
	442	154	—	—	—	—	—	—	304	63
	41	18	—	—	—	—	—	—	35	6
	345	63	—	—	—	—	—	—	25	13
	442	33	—	—	—	—	—	—	257	12
	644	54	—	—	—	—	—	—	115	2
	21	—	—	—	—	—	—	—	—	—
	29	9	—	—	—	—	—	—	—	—
	17	9	—	—	—	—	—	—	—	—
	12	—	—	—	—	—	—	—	—	—
	57	—	—	—	—	—	—	—	—	—
	24	—	—	—	—	—	—	—	—	—
	33	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—
	1 617	51	—	—	—	—	—	—	233	55
	324	12	—	—	—	—	—	—	34	20
	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—
	53	—	—	—	—	—	—	—	—	—
	566	9	—	—	—	—	—	—	—	—
	248	6	—	—	—	—	—	—	—	—
	225	14	—	—	—	—	—	—	18	—
	127	10	—	—	—	—	—	—	34	6
	—	—	—	—	—	—	—	—	91	29

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States													
Finance, insurance, and real estate													
Total		Banking		Savings and loan associations		Credit agencies, n.e.c.		Security, commodity brokerage, and investment companies		Insurance		Real estate, including real estate-insurance-low offices	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
21 809	2 926	2 176	722	186	55	390	120	1 082	246	1 838	598	16 137	1 185
333	105	55	25	22	6	40	6	—	—	97	61	119	7
182	22	22	—	—	—	—	—	—	—	14	—	146	—
422	48	26	12	—	—	—	—	3	—	14	—	379	36
392	36	14	—	—	—	—	—	3	—	14	—	361	36
30	12	12	—	—	—	—	—	—	—	—	—	18	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
1 916	58	104	—	19	5	7	—	58	6	72	—	1 656	47
302	74	57	25	—	—	13	—	11	—	70	22	151	27
2 343	547	626	247	35	14	60	25	347	69	515	108	760	84
155	22	11	5	—	—	—	—	—	—	7	7	137	10
—	—	—	—	—	—	9	2	6	—	—	—	—	—
15	2	—	—	—	—	—	—	2	—	—	—	—	—
1 095	242	377	124	6	—	18	6	127	45	278	12	289	55
34	—	9	—	—	—	—	—	7	—	5	—	13	—
1 044	281	229	118	29	14	33	17	207	24	225	89	321	19
340	17	87	6	—	—	30	6	34	—	32	5	157	—
252	33	19	5	—	—	48	—	8	—	14	14	163	14
435	270	148	120	8	8	44	25	59	39	78	59	98	19
15 284	1 774	1 032	282	102	22	148	58	562	132	932	329	12 508	951

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers,
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stock handlers and laborers
 Stock handlers and laborers
 Machine feeders and operators
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A)

United States	Business and repair services																	
	Total			Advertising			Services to dwellings and other buildings			Commercial research, development, and testing jobs			Personnel supply services			Business management and consulting services		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Employed persons 16 years and over	4 081 677	1 380 020	2 701 657	207 638	97 454	1 104 203	336 303	123 079	236 802	74 941	248 755	184 152	337 117	170 090	167 027	197 655	75 183	122 472
Managerial and professional specialty occupations	955 957	314 238	641 719	87 775	32 713	550 006	23 639	4 504	95 792	17 088	95 541	61 907	156 685	75 183	81 502	197 655	75 183	122 472
Executive, administrative, and managerial occupations	614 233	196 396	417 837	48 537	17 741	398 096	22 528	4 213	31 543	7 154	69 716	39 499	156 685	60 942	95 733	156 685	60 942	95 733
Legislators, chief executives, and general administrators;																		
public administration																		
Administrators and officials, public administration																		
Federal																		
State																		
Local																		
Administrators, protective services	75	12	63	10	—	—	—	—	6	—	15	—	12	—	—	12	—	—
Financial managers	13 327	4 224	9 103	2 152	829	12 494	189	48	865	144	472	218	2 142	746	1 396	2 142	746	1 396
Personnel and labor relations managers	13 750	5 278	8 472	561	272	13 478	661	215	773	235	3 712	1 927	1 814	847	1 967	1 814	847	1 967
Purchasing managers	1 996	555	1 441	128	46	1 870	29	—	500	95	76	23	274	105	1 722	274	105	1 722
Managers, marketing, advertising, and public relations	37 720	8 047	29 673	12 181	3 768	25 905	1 191	102	925	102	1 004	452	4 909	1 084	3 825	4 909	1 084	3 825
Administrators, education and related fields	945	430	515	17	2	933	21	8	248	75	78	53	328	186	1 412	328	186	1 412
Managers, medicine and health																		
Managers, properties and real estate																		
Postmasters and mail superintendents	2 430	497	1 933	122	34	2 097	124	17	112	23	24	7	347	119	2 328	347	119	2 328
Federal directors																		
Managers and administrators, n.e.c.	102	16	86	—	—	—	—	—	—	—	6	—	4	—	—	4	—	—
Managers	330 495	83 320	247 175	26 294	8 865	238 191	18 595	3 340	21 108	4 026	15 236	7 814	38 928	14 992	24 936	38 928	14 992	24 936
Salaries	274 599	72 460	202 139	22 922	8 133	191 667	12 913	2 354	20 566	3 885	13 432	6 923	34 515	13 545	20 970	34 515	13 545	20 970
Self-employed	55 896	10 860	45 036	3 372	732	50 704	5 682	986	5 682	141	1 804	891	4 413	1 447	3 966	4 413	1 447	3 966
Management related occupations	213 393	94 017	119 376	7 072	3 925	115 361	1 718	483	7 006	2 454	49 093	29 005	107 927	42 851	65 076	107 927	42 851	65 076
Accountants and auditors	31 591	15 126	16 465	3 491	1 914	28 077	477	209	2 071	884	2 278	1 282	8 885	4 313	4 572	8 885	4 313	4 572
Underwriters	114	60	54	—	—	—	—	—	20	—	—	—	—	—	—	—	—	—
Other financial officers	45 162	27 410	17 752	312	153	44 809	33	13	436	102	195	30	41 249	25 840	15 409	41 249	25 840	15 409
Management analysts	55 875	10 415	45 460	307	58	55 557	46	7	868	203	466	179	49 775	8 871	40 904	49 775	8 871	40 904
Personnel, training, and labor relations specialists	64 188	35 080	29 108	789	395	64 783	869	204	1 791	891	45 668	27 150	5 813	2 956	3 867	5 813	2 956	3 867
Purchasing agents and buyers, farm products																		
Buyers, wholesale and retail trade except farm products																		
Business and promotion agents																		
Business and sales agents																		
Construction inspectors																		
Inspectors and compliance officers, except construction																		
Management related occupations, n.e.c.																		
Professional specialty occupations	341 724	117 842	223 882	39 238	14 972	208 910	1 111	291	64 249	9 934	25 825	22 408	40 970	14 241	26 729	40 970	14 241	26 729
Engineers, architects, and surveyors	52 608	2 521	50 087	225	57	52 030	193	17	30 383	1 244	341	58	4 626	270	4 356	4 626	270	4 356
Architects	853	134	719	20	8	845	10	—	185	15	15	6	208	53	155	208	53	155
Engineers	51 482	2 324	49 158	196	48	51 010	193	17	30 176	1 229	306	40	4 319	182	3 837	4 319	182	3 837
Aerospace engineers	1 156	47	1 109	2	—	1 154	—	—	631	18	18	—	206	9	25	206	9	25
Metallurgical and materials engineers	1 003	58	945	2	—	999	—	—	909	58	—	—	64	—	—	64	—	—
Mining engineers	111	—	111	—	—	111	—	—	34	—	—	—	14	—	—	14	—	—
Petroleum engineers	209	13	196	6	—	203	—	—	127	6	—	—	234	12	—	234	12	—
Chemical engineers	2 130	114	2 016	—	—	2 016	—	—	1 701	86	—	7	42	—	—	42	—	—
Nuclear engineers	1 781	91	1 690	—	—	1 690	—	—	1 640	76	14	7	383	9	—	383	9	—
Civil engineers	1 729	79	1 650	—	—	1 650	68	17	708	42	8	—	6	—	—	6	—	—
Agricultural engineers	51	—	51	—	—	51	—	—	29	—	—	—	—	—	—	—	—	—
Electrical and electronic engineers	12 554	422	12 132	38	—	12 090	11	—	6 905	217	71	—	684	32	—	684	32	—
Industrial engineers	3 377	453	2 924	67	42	3 255	49	—	1 336	79	47	20	428	40	—	428	40	—
Mechanical engineers	4 623	125	4 498	13	—	4 485	40	—	2 855	58	17	—	277	11	—	277	11	—
Marine engineers and naval architects	174	12	162	—	—	162	—	—	72	12	—	—	18	—	—	18	—	—
Engineers, n.e.c.	22 584	910	21 674	70	6	21 598	25	—	13 229	577	131	13	938	69	—	938	69	—
Surveyors and mapping scientists	273	63	210	9	9	204	—	—	22	—	20	12	99	35	—	99	35	—
Mathematical and computer scientists	57 188	12 198	44 990	197	38	56 853	69	17	6 180	1 372	531	180	5 795	1 654	4 141	5 795	1 654	4 141
Computer systems analysts and scientists	46 422	9 246	37 176	119	33	46 083	43	7	3 773	826	296	82	2 237	514	1 723	2 237	514	1 723
Operations and systems researchers and analysts	6 508	1 507	5 001	30	8	6 470	10	10	1 279	225	17	45	1 714	401	1 313	1 714	401	1 313
Actuaries	910	295	615	—	—	910	—	—	6	—	—	—	799	275	—	799	275	—
Statisticians	2 319	677	1 642	27	15	2 272	11	—	641	219	141	53	925	422	—	925	422	—
Mathematical scientists, n.e.c.	798	173	625	6	2	792	5	—	481	102	—	—	120	42	—	120	42	—

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

Employed persons 16 years and over—Con.
Managerial and professional specialty occupations—Con.
Professional specialty occupations—Con.

OCCUPATION BY INDUSTRY

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A}

United States

Business and repair services

Business management and consulting services

Personnel supply services

Commercial research, development, and testing labs

Services to dwellings and other buildings

Advertising

Total

Female

Total

Female

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations.....	1 237 120	798 907	94 871	59 017	27 478	18 217	104 138	51 128	106 158	93 485	124 560	89 930
Technicians and related support occupations.....	190 979	56 568	1 811	804	742	129	57 625	15 420	11 943	10 288	11 766	4 527
Health technicians and technicians.....	12 867	10 793	8	—	18	—	2 067	1 100	9 975	28	214	110
Clinical laboratory technicians and technicians.....	1 334	793	—	—	—	—	1 078	669	31	—	6	18
Dental hygienists.....	33	10	—	—	—	—	13	—	10	10	6	—
Dental technicians.....	75	63	—	—	—	—	18	13	10	10	14	7
Radiologic technicians.....	241	117	—	—	—	—	181	87	30	20	8	—
Licensed practical nurses.....	10 113	9 573	—	—	8	8	101	64	9 817	9 340	46	46
Health record technicians and technicians.....	1 051	432	8	—	6	6	676	267	54	52	109	39
Health technicians and technicians, n.e.c.....	—	—	—	—	—	—	—	—	—	—	—	—
Engineering and related technicians and technicians.....	65 975	13 660	657	271	146	20	27 744	6 954	816	242	3 396	952
Electrical and electronic technicians.....	20 125	1 703	175	43	40	—	5 007	392	103	21	485	103
Industrial engineering technicians.....	189	30	—	—	11	—	40	2	—	—	26	—
Mechanical engineering technicians.....	761	47	—	—	—	—	609	24	—	—	—	—
Engineering technicians, n.e.c.....	23 323	6 930	72	27	41	12	18 807	5 870	177	80	613	220
Drafting occupations.....	20 424	4 375	410	201	54	8	3 162	585	495	113	1 617	240
Surveying and mapping technicians.....	1 153	517	—	—	—	—	119	81	41	28	655	389
Science technicians.....	9 356	2 820	41	16	138	20	7 089	2 015	90	43	224	90
Biological technicians.....	1 763	468	2	—	92	—	1 493	423	6	6	70	12
Chemical technicians.....	3 022	848	8	2	39	13	2 616	29	30	13	44	12
Science technicians, n.e.c.....	4 571	1 504	31	6	7	7	2 980	895	54	24	117	53
Technicians, except health, engineering, and science.....	102 781	29 090	1 105	517	440	75	20 725	5 351	1 062	543	7 932	3 375
Airplane pilots and navigators.....	679	18	100	13	21	—	87	—	—	—	49	—
Air traffic controllers.....	—	—	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators.....	2 901	1 218	108	48	22	—	29	5	6	6	40	—
Computer programmers.....	63 882	17 889	305	151	64	12	4 825	1 533	521	194	3 229	1 112
Tool programmers, numerical control.....	556	230	—	—	—	—	56	27	6	6	50	14
Legal assistants.....	1 478	839	27	20	24	11	145	67	86	43	145	75
Technicians, n.e.c.....	33 285	8 896	565	285	309	52	15 583	3 719	443	294	4 419	2 162
Sales occupations.....	223 695	79 503	40 819	14 755	7 713	1 261	2 786	792	5 097	3 022	18 780	5 824
Supervisors and proprietors, sales occupations.....	28 601	3 749	593	99	1 217	58	303	52	707	407	887	246
Salaries.....	23 715	3 185	466	77	1 094	56	303	52	670	397	771	213
Self-employed.....	4 886	564	127	22	123	2	—	—	37	10	116	33
Sales representatives, finance and business services.....	139 887	44 030	38 649	13 696	5 702	539	1 798	311	3 765	2 131	14 915	3 848
Insurance sales occupations.....	—	—	—	—	—	—	—	—	—	—	—	—
Real estate sales occupations.....	1 850	443	409	179	26	2	26	—	21	6	220	65
Securities and financial services sales occupations.....	—	—	—	—	—	—	—	—	—	—	—	—
Advertising and related sales occupations.....	41 597	15 118	38 240	13 517	56	20	43	20	165	103	1 998	985
Sales occupations, other business services.....	96 440	28 469	—	—	5 620	517	1 729	291	3 579	2 022	12 697	2 798
Sales representatives, commodities, except retail.....	1 731	103	133	29	7	—	134	15	21	4	668	26
Sales engineers.....	1 731	103	133	29	7	—	134	15	21	4	668	26
Sales representatives, mining, manufacturing, and wholesale.....	—	—	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services.....	47 649	29 392	1 365	882	776	659	493	371	397	294	1 990	1 458
Sales workers, commodities.....	6 568	950	16	6	6	—	25	—	7	—	20	—
Sales counter clerks.....	14 141	8 642	25	7	51	33	6	—	11	11	36	25
Cashiers.....	13 409	9 353	141	70	84	67	260	113	129	136	284	225
Street and door-to-door sales workers.....	13 032	10 233	965	697	616	553	202	133	237	156	1 604	1 194
News vendors.....	499	214	218	108	19	6	—	—	13	7	46	14
Sales related occupations.....	5 827	2 229	79	49	11	5	58	43	207	186	246	246
Demonstrators, promoters and models, sales.....	3 525	1 531	71	49	—	—	35	29	197	180	266	228
Auctioneers.....	—	—	8	—	—	—	2	—	4	—	2	—
Sales support occupations, n.e.c.....	392	220	—	—	11	5	21	14	6	—	52	18
Administrative support occupations, including clerical.....	822 446	662 836	52 241	43 458	19 023	16 827	43 727	34 916	89 118	80 175	94 014	79 579
Supervisors, administrative support occupations.....	46 561	25 744	4 513	2 259	822	467	2 657	1 231	2 531	1 716	6 048	4 188
Supervisors, general office.....	25 789	17 180	1 742	1 251	617	377	1 596	940	1 903	1 376	4 079	3 139
Supervisors, computer equipment operators.....	7 165	2 258	72	23	—	—	458	195	116	43	195	139
Supervisors, financial records processing.....	8 660	4 123	1 860	666	167	86	372	157	391	231	1 103	626
Chief communications operators.....	471	361	30	30	—	—	28	2	6	6	41	—
Supervisors, distribution, scheduling, and adjusting clerks.....	4 476	1 822	809	289	38	4	203	40	115	60	383	187
Computer equipment operators.....	44 745	20 777	799	539	153	75	2 402	1 151	1 123	2 688	1 442	1 123
Computer operators.....	42 671	19 652	761	507	134	70	2 309	1 078	1 093	1 380	2 610	1 380
Peripheral equipment operators.....	2 074	1 125	38	32	19	5	93	73	30	24	78	62

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States																							
Business and repair services																							
Total			Advertising			Services to dwellings and other buildings			Commercial research, development, and testing labs			Personnel supply services			Business management and consulting services								
Total			Female			Total			Female			Total			Female			Total			Female		
Employed persons 16 years and over—Con.																							
Technical, sales, and administrative support occupations—Con.																							
Administrative support occupations, including clerical—Con																							
Secretaries, stenographers, and typists—																							
Secretaries—																							
Stenographers—																							
Typists—																							
Information clerks—																							
Interviewers—																							
Hotel clerks—																							
Transportation ticket and reservation agents—																							
Receptionists—																							
Information clerks, n.e.c.—																							
Records processing occupations, except financial—																							
Classified-ad clerks—																							
Correspondence clerks—																							
Order clerks—																							
Personnel clerks, except payroll and timekeeping—																							
Library clerks—																							
File clerks—																							
Records clerks—																							
Financial records processing occupations—																							
Bookkeepers, accounting, and auditing clerks—																							
Payroll and timekeeping clerks—																							
Billing clerks—																							
Cost and rate clerks—																							
Billing, posting, and calculating machine operators—																							
Duplicating, mail, and other office machine operators—																							
Duplicating machine operators—																							
Mail preparing and paper handling machine operators—																							
Office machine operators, n.e.c.—																							
Communications equipment operators—																							
Telephone operators—																							
Telegraphers—																							
Communications equipment operators, n.e.c.—																							
Mail and message distributing occupations—																							
Postal clerks, except mail carriers—																							
Mail carriers, postal service—																							
Messengers—																							
Material recording, scheduling, and distributing clerks—																							
Dispatchers—																							
Production coordinators—																							
Traffic, shipping, and receiving clerks—																							
Stock and inventory clerks—																							
Meter readers—																							
Weighers, measurers, and checkers—																							
Samplers—																							
Expeditors—																							
Material recording, scheduling, and distributing clerks, n.e.c.—																							
Adjusters and investigators—																							
Insurance adjusters, examiners, and investigators—																							
Investigators and adjusters, except insurance—																							
Eligibility clerks, social welfare—																							
Bill and account collectors—																							
Miscellaneous administrative support occupations—																							
General office clerks—																							
Bank tellers—																							
Proofreaders—																							
Data-entry keyers—																							
Statistical clerks—																							
Teachers' aides—																							
Administrative support occupations, n.e.c.—																							

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Business and repair services											
	Total		Advertising		Services to dwellings and other buildings		Commercial research, development, and testing labs		Personnel supply services		Business management and consulting services	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.												
Service occupations	509 345	159 187	2 128	807	264 778	97 762	8 024	2 745	30 919	25 410	5 250	2 201
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	174 382	22 625	255	38	1 344	174	2 082	241	709	78	834	205
Supervisors, protective service occupations	6 668	712	19	—	53	—	162	12	26	5	49	9
Supervisors, firefighting and fire prevention occupations	172	14	—	—	—	—	18	6	—	—	8	—
Supervisors, police and detectives	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, guards	6 496	698	19	—	53	—	144	6	26	5	41	9
Firefighting and fire prevention occupations	901	28	—	—	—	—	81	—	11	—	45	17
Fire inspection and fire prevention occupations	489	23	—	—	—	—	43	—	5	—	46	17
Firefighting occupations	412	5	—	—	—	—	38	—	6	—	5	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—	—	—
Guards	166 813	21 885	236	38	1 291	174	1 839	229	672	73	740	179
Crossing guards	61	23	—	—	—	—	—	—	—	—	—	—
Guards and police, except public service	166 159	21 713	236	38	1 278	161	1 839	229	657	66	734	173
Protective service occupations, n.e.c.	593	149	—	—	13	—	—	—	15	7	6	6
Service occupations, except protective and household	334 963	136 562	1 873	769	263 434	97 588	5 942	2 504	30 210	25 332	4 416	1 996
Food preparation and service occupations	6 346	3 714	62	38	668	362	1 335	892	862	555	791	491
Supervisors, food preparation and service occupations	6 550	183	24	6	60	39	190	40	19	2	87	1
Bar tenders	2	48	2	2	7	—	12	6	23	12	8	8
Waiters and waitresses	984	759	13	13	87	71	93	74	75	54	213	182
Cooks, except short order	1 891	1 075	9	9	102	65	363	266	265	195	175	99
Short-order cooks	60	24	—	—	—	—	15	5	21	13	6	—
Food counter, fountain and related occupations	255	148	8	8	—	—	20	18	31	31	18	—
Kitchen workers, food preparation	260	159	6	6	13	13	90	63	40	25	41	21
Waiters and waitresses, assistants	377	577	—	—	81	25	218	193	40	26	66	24
Miscellaneous food preparation occupations	1 622	942	—	—	318	149	334	227	347	197	177	124
Health service occupations	19 930	18 417	61	48	164	110	476	386	18 146	17 071	358	320
Dental assistants	121	51	—	—	57	9	—	—	13	11	19	19
Health aides, except nursing	698	530	6	6	—	—	275	211	267	246	42	27
Nursing aides, orderlies, and attendants	19 111	17 836	55	42	107	101	201	175	17 866	16 814	297	274
Cleaning and building service occupations, except household	295 181	104 182	1 396	449	258 430	93 506	3 900	1 065	6 568	3 965	2 738	855
Supervisors, cleaning and building service workers	15 424	3 844	57	8	13 960	3 601	297	12	103	49	176	34
Maid and housemen	29 389	21 533	121	104	23 566	17 550	236	102	2 948	2 683	364	209
Janitors and cleaners	219 088	77 347	1 190	327	190 429	71 001	3 318	940	3 464	1 219	2 095	606
Elevator operators	828	108	—	—	522	58	6	—	26	7	70	—
Pest control occupations	30 452	1 350	28	10	29 953	1 296	43	11	27	7	33	—
Personal service occupations	13 506	10 249	354	234	4 172	3 610	231	161	4 634	3 741	529	330
Supervisors, personal service occupations	223	78	13	7	42	16	3	3	28	12	7	—
Barbers	225	51	12	—	4	—	6	—	33	20	5	—
Hairstressers and cosmetologists	2 300	1 955	13	7	—	—	—	—	41	34	92	25
Attendants, amusement and recreation facilities	518	201	16	10	1 967	1 687	17	14	37	31	48	13
Guides	298	155	12	—	—	—	62	24	60	33	13	10
Ushers	692	189	—	—	10	10	7	7	320	81	25	—
Public transportation attendants	—	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	130	18	—	—	—	—	—	—	—	—	29	—
Welfare service aides	—	—	—	—	—	—	—	—	—	—	—	—
Child care workers, except private household	882	694	6	—	178	137	46	34	315	256	74	66
Personal service occupations, n.e.c.	8 238	6 908	282	210	1 971	1 756	90	73	3 800	3 304	296	177
Farming, forestry, and fishing occupations	6 188	757	72	—	1 333	118	815	266	432	33	199	42
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	94	77	—	—	—	—	17	9	8	8	—	—
Related agricultural occupations	5 753	640	57	—	1 316	113	790	257	412	25	177	30
Supervisors, related agricultural occupations	52	22	—	—	37	16	2	—	6	6	—	—
Groundskeepers and gardeners, except farm	2 857	269	57	—	1 237	90	186	20	394	12	148	30
Animal caretakers, except farm	2 793	349	—	—	25	7	597	237	12	7	29	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	51	—	—	—	17	—	5	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States									
	Total					Business and repair services				
	Total	Female	Total	Female	Total	Services to dwellings and other buildings	Advertising	Commercial research, development, and testing jobs	Personnel supply services	Business management and consulting services
	Total	Female	Total	Female	Total	Total	Total	Total	Total	Total
Farming, forestry, and fishing occupations—Con.										
Forestry and logging occupations	233	29	10	—	6	—	—	—	12	12
Supervisors, forestry and logging workers	—	—	—	—	—	—	—	—	—	—
Forestry workers, except logging	154	23	8	—	6	—	—	—	—	6
Timber cutting and logging occupations	108	6	2	—	—	—	—	—	12	6
Fishers, hunters, and trappers	55	11	5	—	11	5	—	8	—	10
Captains and other officers, fishing vessels	24	—	—	—	6	—	—	—	—	—
Fishers	29	6	—	—	5	—	—	8	—	—
Hunters and trappers	940	264	8 957	811	7 860	482	—	—	—	—
Precision production, craft, and repair occupations	798 847	33 213	—	—	15 860	—	—	1 029	—	685
Mechanics and repairers	298 864	13 575	785	68	2 769	38	—	1 820	382	4 347
Supervisors, mechanics and repairers	22 290	533	37	13	214	—	—	1 701	31	180
Mechanics and repairers, except supervisors	776 557	13 042	748	55	2 555	38	—	1 69	31	91
Vehicle and mobile equipment mechanics and repairers	544 305	5 566	270	2	2 555	—	—	4 374	—	1 610
Automobile mechanics	362 476	3 793	203	—	234	—	—	442	13	131
Bus, truck, and stationary engine mechanics	29 575	200	18	—	49	—	—	37	9	75
Aircraft engine mechanics	1 007	16	31	—	23	—	—	30	—	15
Small engine repairers	8 837	132	13	—	19	—	—	19	—	12
Automobile body and related repairers	128 881	1 339	11	2	33	—	—	12	—	2
Aircraft mechanics, except engine	7 594	47	7	—	27	—	—	14	—	14
Heavy equipment mechanics	5 648	22	—	—	40	—	—	5	—	13
Farm equipment mechanics	15 288	392	133	7	569	—	—	763	45	240
Industrial machinery repairers	97 878	2 851	134	33	181	—	—	37	9	18
Machinery maintenance occupations	46 674	1 081	111	20	81	—	—	615	80	492
Electrical and electronic equipment repairers	16 638	829	15	13	14	—	—	26	—	7
Electronic repairers, communications and industrial equipment	24 944	449	—	—	49	—	—	51	—	38
Data processing equipment repairers	1 410	197	5	—	30	—	—	24	8	68
Household appliance and power tool repairers	8 087	278	3	—	7	—	—	52	—	18
Telephone and related repairers	24 738	164	—	—	179	8	—	192	9	72
Miscellaneous electrical and electronic equipment repairers	93 376	4 041	203	13	1 175	24	—	2 115	106	657
Heating, air conditioning, and refrigeration mechanics	16 492	1 157	11	—	5	—	—	639	5	7
Camera, watch, and musical instrument repairers	12 146	843	12	6	8	—	—	24	—	14
Locksmiths and safe repairers	9 968	402	—	—	—	—	—	46	—	15
Office machine repairers	1 001	72	—	—	—	—	—	13	—	199
Mechanical controls and valve repairers	352	5	6	—	44	—	—	7	—	6
Elevator installers and repairers	1 429	31	—	—	60	—	—	230	22	5
Millwrights	35 377	1 088	51	—	467	10	—	574	46	141
Specified mechanics and repairers, n.e.c.	16 611	443	117	7	591	14	—	582	33	248
Not specified mechanics and repairers	41 925	1 385	6 038	201	3 079	118	—	3 420	774	659
Construction trades	2 371	90	286	10	330	27	—	294	36	163
Supervisors, construction occupations	38	—	—	—	—	—	—	11	—	—
Supervisors, brickmasons, stonemasons, and tile setters	422	—	8	—	5	—	—	8	2	7
Supervisors, carpenters and related workers	104	19	60	10	14	—	—	94	—	12
Supervisors, electricians and power transmission installers	1 637	55	211	—	311	—	—	13	—	—
Supervisors, painters, paperhangers, and plasterers	39 554	1 295	5 752	191	2 749	91	—	168	34	144
Supervisors, plumbers, pipefitters, and steamfitters	321	19	—	—	16	—	—	3 126	738	20
Construction trades, except supervisors	92	36	—	—	4	—	—	37	12	496
Brickmasons and stonemasons	360	186	—	—	16	—	—	—	25	35
Tile setters, hard and soft	5 415	317	459	19	897	6	—	—	215	92
Carpet installers	143	—	—	—	30	—	—	502	11	—
Carpenters	12 453	289	515	23	336	30	—	41	86	115
Drywall installers	5 987	346	415	33	623	—	—	1 439	3	14
Electricians	1 591	95	1 388	49	2	—	—	201	245	146
Electrical power installers and repairers	—	—	—	—	—	—	—	—	—	7
Painters, construction and maintenance	—	—	—	—	—	—	—	—	—	21
Paperhangers	—	—	—	—	—	—	—	—	—	3

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Business and repair services									
	Total		Advertising		Services to dwellings and other buildings		Commercial research, development, and testing labs		Personnel supply services	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States										
Employed persons 16 years and over—Con.										
Precision production, craft, and repair occupations—Con.										
Construction trades—Con.										
Plasterers.....	47	57	39	—	415	—	700	8	68	—
Plumbers, pipefitters, and steamfitters.....	5 680	73	—	—	5	—	6	—	6	—
Concrete and terraazzo finishers.....	878	35	—	—	16	—	7	—	7	—
Glaziers.....	223	20	8	—	30	—	10	6	11	—
Insulation workers.....	111	—	—	—	—	—	—	—	—	—
Paving, surfacing, and tamping equipment operators.....	113	—	—	—	10	—	—	—	—	—
Roofers.....	186	5	—	—	15	—	24	5	15	—
Sheetmetal duct installers.....	260	—	—	—	12	—	32	—	—	—
Structural metal workers.....	171	—	—	—	—	—	93	—	—	—
Drillers, earth.....	5 261	160	2 908	67	229	4	44	5	48	19
Construction trades, n.e.c.....	408	43	9	9	10	9	13	—	15	14
Supervisors, extractive occupations.....	133	14	9	—	—	—	6	—	—	—
Drillers, oil well.....	74	17	—	—	9	9	—	—	15	—
Explosives workers.....	87	5	—	—	—	—	16	5	—	—
Mining machine operators.....	43	7	—	—	1	—	9	—	—	—
Mining occupations, n.e.c.....	66	—	—	—	—	—	—	—	—	—
Precision production occupations.....	99 089	18 210	2 125	533	1 978	317	7 738	728	714	563
Supervisors, production occupations.....	27 207	5 480	1 407	384	1 341	230	2 693	273	359	123
Precision metalworking occupations.....	15 459	610	510	73	113	—	2 630	17	120	274
Tool and die makers.....	1 566	29	19	—	2	—	278	—	13	304
Precision assemblers, metal.....	184	30	—	—	—	—	33	—	5	6
Machinists.....	8 352	217	70	9	63	—	1 921	17	85	9
Boilermakers.....	2 030	22	—	—	35	—	53	—	—	7
Precision grinders, filers, and tool sharpeners.....	844	46	—	—	—	—	20	—	—	—
Patternmakers and model makers, metal.....	251	29	26	6	—	—	103	—	20	14
Lat-out workers.....	135	29	27	7	—	—	14	—	29	7
Precious stones and metals workers (jewelers).....	645	55	—	—	—	—	38	—	—	—
Engravers, metal.....	321	139	96	51	—	—	7	—	—	2
Sheet metal workers.....	1 113	14	272	—	13	—	154	—	17	—
Miscellaneous precision metal workers.....	18	—	—	—	—	—	9	—	—	—
Precision woodworking occupations.....	14 377	1 860	25	—	18	8	20	—	7	15
Patternmakers and model makers, wood.....	59	14	14	—	2	2	—	—	—	—
Cabinet makers and bench carpenters.....	6 421	671	6	—	—	—	15	—	—	15
Furniture and wood finishers.....	7 844	1 171	6	—	16	6	—	—	7	—
Miscellaneous precision woodworkers.....	53	4	5	—	—	—	5	—	—	—
Precision textile, apparel, and furnishings machine workers.....	31 801	8 677	30	—	34	34	50	35	47	52
Dressmakers.....	2 230	2 005	30	30	31	31	35	15	30	39
Tailors.....	101	20	—	—	—	—	13	—	7	—
Upholsterers.....	29 157	6 523	—	—	3	3	—	—	—	6
Shoe repairers.....	175	53	—	—	—	—	—	—	11	8
Apparel and fabric patternmakers.....	103	56	—	—	—	—	2	—	6	—
Miscellaneous precision apparel and fabric workers.....	35	20	—	—	—	—	—	—	—	—
Precision workers, assorted materials.....	2 011	711	120	38	—	—	515	134	86	67
Hand molders and choppers, except jewelers.....	258	16	35	—	—	—	108	6	—	83
Patternmakers, lay-out workers, and cutters.....	166	64	56	25	—	—	11	—	—	3
Optical goods workers.....	207	33	—	—	—	—	86	6	—	17
Dental laboratory and medical appliance technicians.....	113	24	—	—	—	—	33	—	—	14
Bookbinders.....	127	67	18	13	—	—	33	17	22	30
Electrical and electronic equipment assemblers.....	854	471	11	—	—	—	202	88	64	6
Miscellaneous precision workers, n.e.c.....	286	36	—	—	—	—	42	—	—	13
Precision food production occupations.....	794	170	10	8	15	7	86	38	15	13
Butchers and meat cutters.....	307	34	10	8	8	—	35	—	10	—
Bakers.....	107	52	—	—	7	7	43	—	—	13
Food batchmakers.....	380	84	—	—	—	—	—	—	—	—
Precision inspectors, testers, and related workers.....	3 627	549	—	—	11	5	918	217	13	35
Inspectors, testers, and graders.....	3 598	539	—	—	11	5	918	217	13	—
Adjusters and calibrators.....	29	10	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States											
Business and repair services											
Total		Advertising		Services to dwellings and other buildings		Commercial research, development, and testing labs		Personnel supply services		Business management and consulting services	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.											
Precision production, craft, and repair occupations—Con.											
Plant and system operators—Con.											
Water and sewage treatment plant operators											
Power plant operators											
Stationary engineers											
Miscellaneous plant and system operators											
Operators, fabricators, and laborers											
Machine operators, assemblers, and inspectors											
Machine operators and tenders, except precision											
Metalworking and plastic working machine operators											
Lathe and turning machine operators											
Lathe and turning machine operators											
Milling and planing machine operators											
Punching and stamping press machine operators											
Rolling machine operators											
Drilling and boring machine operators											
Grinding, abrading, buffing, and polishing machine operators											
Forging machine operators											
Numerical control machine operators											
Miscellaneous metal, plastic, stone, and glass working machine operators											
Fabricating machine operators, n.e.c.											
Metal and plastic processing machine operators											
Molding and casting machine operators											
Metal plating machine operators											
Heat treating equipment operators											
Miscellaneous metal and plastic processing machine operators											
Woodworking machine operators											
Wood lathe, routing, and planing machine operators											
Sawing machine operators											
Shaping and joining machine operators											
Nailing and tacking machine operators											
Miscellaneous woodworking machine operators											
Printing machine operators											
Proofing machine operators											
Photoengravers and lithographers											
Typesetters and compositors											
Miscellaneous printing machine operators											
Textile, apparel, and furnishings machine operators											
Winding and twisting machine operators											
Knitting, looping, tufting, and weaving machine operators											
Textile cutting machine operators											
Textile sewing machine operators											
Shoe machine operators											
Pressing machine operators											
Laundering and dry cleaning machine operators											
Miscellaneous textile machine operators											
Machine operators, assorted materials											
Cementing and gluing machine operators											
Packaging and filling machine operators											
Extruding and forming machine operators											
Mixing and blending machine operators											
Separating, filtering, and clarifying machine operators											
Compressing and compacting machine operators											
Painting and paint spraying machine operators											
Roasting and baking machine operators											
Washing, cleaning, and picking machine operators											

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Precision production occupations—Con.

Plant and system operators—Con.

Water and sewage treatment plant operators—

Power plant operators—

Stationary engineers—

Miscellaneous plant and system operators—

Operators, fabricators, and laborers—

Machine operators, assemblers, and inspectors—

Machine operators and tenders, except precision

Metalworking and plastic working machine operators—

Lathe and turning machine operators—

Milling and turning machine operators—

Planing and planing machine operators—

Pressing and stamping press machine operators—

Rolling and rolling machine operators—

Drilling and boring machine operators—

Grinding, abrading, buffing, and polishing machine

operators—

Forming machine operators—

Numerical control machine operators—

Miscellaneous metal, plastic, stone, and glass working

machine operators—

Fabricating machine operators, n.e.c.—

Metal and plastic processing machine operators—

Molding and casting machine operators—

Metal plating machine operators—

Heat treating equipment operators—

Miscellaneous metal and plastic processing machine

operators—

Woodworking machine operators—

Wood lathe, routing, and planing machine operators—

Sawing machine operators—

Shaping and joining machine operators—

Nailing and tacking machine operators—

Miscellaneous woodworking machine operators—

Printing machine operators—

Photoengraving and lithography—

Typesetters and compositors—

Miscellaneous printing machine operators—

Textile, apparel, and furnishings machine operators—

Winding and twisting machine operators—

Knitting, looping, taping, and weaving machine

operators—

Textile cutting machine operators—

Textile sewing machine operators—

Shoe machine operators—

Pressing machine operators—

Laundering and dry cleaning machine operators—

Miscellaneous textile machine operators—

Machine operators, assorted materials—

Cementing and gluing machine operators—

Packaging and filling machine operators—

Extruding and forming machine operators—

Mixing and blending machine operators—

Separating, filtering, and clarifying machine operators—

Compressing and compacting machine operators—

Painting and paint spraying machine operators—

Roasting and baking machine operators, food—

Washing, cleaning, and picking machine operators—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Business and repair services											
Total			Advertising			Services to dwellings and other buildings			Commercial research, development, and testing labs		
Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Employed persons 16 years and over—Con.											
Operators, fabricators, and laborers—Con.											
Machine operators, assemblers, and inspectors—Con.											
Machine operators and tenders, except precision—Con.											
Machine operators, assorted materials—Con.											
Folding machine operators											
156	89	67	8	2	6	—	—	—	—	—	—
1 030	69	961	6	—	6	58	—	—	19	—	—
113	20	93	7	—	7	—	—	—	168	2	2
2 415	799	1 616	215	71	144	44	3	—	24	6	38
102	42	60	29	—	29	—	—	—	36	—	—
29 930	16 489	13 441	726	303	423	47	34	105	314	85	5
11 729	3 409	8 320	198	565	142	276	49	151	625	270	231
14 609	4 987	9 622	1 201	638	563	482	70	279	1 016	71	404
Machine operators, not specified											
95 100	8 444	86 656	3 801	546	3 255	260	40	527	1 958	619	355
65 763	1 168	64 595	343	29	314	143	7	143	757	18	12
368	221	147	—	—	—	7	—	—	49	14	4
14 771	5 348	9 423	770	325	445	87	33	459	1 110	546	334
Assemblers											
77	14	63	—	—	—	—	—	—	—	—	—
Hand cutting and trimming occupations	—	—	—	—	—	—	—	—	—	—	—
Hand molding, casting, and forming occupations	—	—	—	—	—	—	—	—	—	—	—
Hand painting, coating and decorating occupations	—	—	—	—	—	—	—	—	—	—	—
Hand engraving and printing occupations	—	—	—	—	—	—	—	—	—	—	—
Hand grinding and polishing occupations	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous hand working occupations	—	—	—	—	—	—	—	—	—	—	—
Production inspectors, testers, samplers, and weighers											
8 908	3 015	5 893	244	162	84	434	37	375	2 106	94	129
5 960	1 583	4 377	63	40	23	373	37	215	1 428	41	89
885	225	660	32	6	26	2	—	116	117	89	203
385	101	284	12	12	—	—	—	36	13	—	20
1 678	1 106	572	137	104	33	59	—	—	161	8	—
Transportation and material moving occupations											
94 403	8 645	85 758	1 667	303	1 364	2 117	102	303	2 512	307	1 050
85 068	8 106	76 962	1 245	297	948	1 802	94	230	2 108	297	873
1 737	191	1 546	49	23	26	66	—	—	29	—	23
34 475	1 219	33 256	352	26	326	952	53	23	571	58	287
18 909	2 747	16 162	688	192	496	482	15	75	457	19	331
1 797	281	1 516	82	41	41	120	5	8	22	—	55
1 401	670	731	6	—	6	26	19	—	97	34	19
9 594	1 876	7 718	80	15	65	122	2	111	396	180	22
16 987	1 108	15 879	—	—	—	24	2	6	7	6	132
168	14	154	8	—	—	10	—	—	15	—	23
Motor transportation occupations, n.e.c.											
147	18	129	—	—	—	—	—	—	13	8	—
Railroad conductors and yardmasters	—	—	—	—	—	—	—	—	7	8	—
Locomotive operating occupations	—	—	—	—	—	—	—	—	6	—	—
Railroad brake, signal, and switch operators	—	—	—	—	—	—	—	—	—	—	—
Rail vehicle operators, n.e.c.	—	—	—	—	—	—	—	—	—	—	—
Water transportation occupations											
373	55	318	5	—	—	7	—	—	51	—	16
Ship captains and mates, except fishing boats	—	—	5	—	—	7	—	—	30	—	7
Sailors and deckhands	—	—	—	—	—	—	—	—	16	—	—
Harbor engineers	—	—	—	—	—	—	—	—	5	—	—
Bridge, lock, and lighthouse tenders	—	—	—	—	—	—	—	—	—	—	—
Material moving occupations											
8 815	466	8 349	417	6	811	308	8	73	500	2	156
Supervisors, material moving equipment operators	—	—	—	—	—	20	—	—	29	—	17
Operating engineers	—	—	—	—	—	108	—	—	99	—	12
Longshore equipment operators	—	—	—	—	—	—	—	—	—	—	—
Hoist and winch operators	—	—	—	—	—	—	—	—	—	—	—
Crane and tower operators	—	—	—	—	—	—	—	—	—	—	—
Excavating and loading machine operators	—	—	—	—	—	—	—	—	—	—	—
Grader, dozer, and scraper operators	—	—	—	—	—	—	—	—	—	—	—
Industrial truck and tractor equipment operators	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous material moving equipment operators	—	—	—	—	—	—	—	—	—	—	—
2 207	27	2 180	169	—	169	95	—	—	74	—	162
1 828	332	1 496	67	6	611	37	8	57	220	2	31

United States

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Business and repair services											
Total		Advertising		Services to dwellings and other buildings		Commercial research, development, and testing labs		Personnel supply services		Business management and consulting services	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.											
121 488	18 505	2 451	624	6 666	1 448	2 243	578	7 987	1 207	1 274	506
Operators, fabricators, and laborers—Con.											
Handlers, equipment cleaners, helpers, and laborers											
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.											
Helpers, mechanics and repairers	551	22	7	73	4	51	5	—	—	17	13
Helpers, construction and extractive occupations	7 153	6	—	14	—	12	—	8	—	—	—
Helpers, construction trades	86	49	—	40	—	39	—	58	5	75	18
Helpers, surveyor	612	41	—	40	—	39	—	53	—	26	—
Helpers, extractive occupations	94	8	—	—	—	—	—	5	5	49	18
Construction laborers	—	—	—	—	—	—	—	—	—	—	—
Production helpers	1 896	234	9	202	19	109	—	394	14	72	7
Freight, stock, and material handlers	7 089	100	2	95	16	188	82	51	19	25	6
Garbage collectors	6 287	241	33	281	6	151	13	1 441	35	232	58
Stevedores	326	—	—	94	—	—	—	32	2	—	—
Stock handlers and bidders	11	—	—	—	—	—	—	—	—	—	—
Machine feeders and officers	1 464	84	26	45	—	46	6	179	14	91	30
Freight, stock, and material handlers, n.e.c.	348	21	7	14	6	9	—	17	—	18	10
Garage and service station related occupations	4 138	136	—	128	—	96	7	1 213	19	123	18
Vehicle washers and equipment cleaners	12 512	249	49	67	—	13	7	22	12	8	—
Hand packers and packagers	36 302	13	5	644	113	115	33	44	—	12	—
Laborers, except construction	9 028	291	187	75	18	315	152	613	370	192	135
	39 964	1 246	332	5 175	1 272	1 250	286	5 356	752	641	269

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stevedores
 Stock handlers and baggers
 Machine feeders and offbearers
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Business and repair services—Con.																											
Computer and data processing services				Detective and protective services				Business services, n.e.c.				Automotive services, except repair				Automotive repair shops				Electrical repair shops				Miscellaneous repair services			
Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female	
Employed persons 16 years and over																											
Managerial and professional specialty occupations																											
Executive, administrative, and managerial occupations																											
Legislators, chief executives, and general administrators;																											
public administration																											
Administrators and officials, public administration																											
Federal																											
State																											
Local																											
Administrators, protective services																											
Financial managers																											
Personnel and labor relations managers																											
Purchasing managers																											
Managers, marketing, advertising, and public relations																											
Administrators, education and related fields																											
Managers, medicine and health																											
Managers, properties and real estate																											
Postmasters and mail superintendents																											
Funeral directors																											
Managers and administrators, n.e.c.																											
Salaried																											
Self-employed																											
Management related occupations																											
Accountants and auditors																											
Underwriters																											
Other financial officers																											
Management analysts																											
Personnel, training, and labor relations specialists																											
Purchasing agents and buyers, farm products																											
Buyers, wholesale and retail trade except farm products																											
Purchasing agents and buyers, n.e.c.																											
Business and promotion agents																											
Construction inspectors																											
Inspectors and compliance officers, except construction																											
Management related occupations, n.e.c.																											
Professional specialty occupations																											
Engineers, architects, and surveyors																											
Architects																											
Engineers																											
Aerospace engineers																											
Metallurgical and materials engineers																											
Mining engineers																											
Petroleum engineers																											
Chemical engineers																											
Nuclear engineers																											
Civil engineers																											
Agricultural engineers																											
Electrical and electronic engineers																											
Industrial engineers																											
Mechanical engineers																											
Marine engineers and naval architects																											
Engineers, n.e.c.																											
Surveyors and mapping scientists																											
Mathematical and computer scientists																											
Computer systems analysts and scientists																											
Operations and systems researchers and analysts																											
Actuaries																											
Statisticians																											
Mathematical scientists, n.e.c.																											

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States									
Business and repair services—Con.									
	Computer and data processing services		Detective and protective services		Business services, n.e.c.		Automotive services, except repair		Miscellaneous repair services
	Total	Female	Total	Female	Total	Female	Total	Female	Total
Employed persons 16 years and over—Con.									
Managerial and professional specialty occupations—Con.									
Professional specialty occupations—Con.									
Natural scientists	702	137	64	13	998	209	18	6	17
Physicists and astronomers	170	6	16	—	167	—	—	—	—
Chemists, except biochemists	210	43	21	6	423	112	—	—	—
Atmospheric and space scientists	78	31	7	7	36	7	—	—	—
Geologists and geodesists	167	36	20	7	88	27	—	—	—
Physical scientists, n.e.c.	20	7	—	—	46	7	—	—	—
Agricultural and food scientists	12	—	—	—	54	8	—	—	—
Biological and life scientists	27	14	—	—	91	20	—	—	—
Forestry and conservation scientists	6	—	—	—	48	6	—	—	—
Medical scientists	12	—	—	—	45	28	—	—	—
Health diagnosing occupations	65	19	12	—	230	76	—	—	—
Physicians	54	19	12	—	147	40	—	—	—
Veterinarians	6	—	—	—	24	17	—	—	—
Optometrists	—	—	—	—	12	—	—	—	—
Podiatrists	5	—	—	—	19	5	—	—	—
Health diagnosing practitioners, n.e.c.	—	—	—	—	28	14	—	—	—
Health assessment and treating occupations	112	103	39	21	681	460	10	4	27
Registered nurses	70	70	27	21	383	359	6	6	21
Pharmacists	11	11	—	—	137	14	—	—	—
Dietitians	1	—	—	—	89	50	—	—	—
Therapists	28	21	6	—	66	37	4	4	6
Physicians' assistants	2	—	—	—	6	—	—	—	—
Teachers, postsecondary	100	41	12	—	166	45	13	—	17
Teachers, except postsecondary	1 260	461	59	19	1 139	677	50	12	232
Teachers, prekindergarten and kindergarten	—	—	—	—	132	12	—	—	—
Teachers, elementary and secondary school	—	—	—	—	19	—	—	—	—
Teachers, special education	—	—	—	—	—	—	—	—	—
Teachers, n.e.c.	1 260	461	59	19	1 083	650	50	12	232
Counselors, educational and vocational	110	24	22	3	202	106	—	—	—
Librarians, archivists, and curators	688	518	38	26	344	258	—	—	—
Librarians	638	510	38	26	240	208	—	—	—
Archivists and curators	30	8	—	—	104	50	—	—	—
Social scientists and urban planners	2 388	750	145	39	1 393	511	135	25	36
Economists	2 303	728	122	39	1 146	427	135	25	21
Psychologists	25	11	11	—	17	28	—	—	—
Sociologists	—	—	—	—	—	—	—	—	—
Social scientists, n.e.c.	43	5	12	—	122	36	—	—	—
Urban planners	12	6	—	—	34	20	—	—	—
Social scientists, and religious workers	79	59	257	111	714	380	21	—	—
Social workers	79	59	233	111	627	327	6	—	—
Recreation workers	—	—	24	—	60	43	—	—	—
Clergy	—	—	—	—	—	—	9	—	2
Religious workers, n.e.c.	—	—	—	—	32	10	—	—	—
Lawyers and judges	248	43	632	101	505	78	79	17	—
Lawyers	248	43	632	101	505	78	79	17	—
Judges	—	—	—	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	5 284	2 312	1 157	364	86 990	37 401	319	125	568
Authors	79	14	14	9	306	134	—	—	20
Technical writers	1 640	852	49	19	622	272	4	—	—
Designers	1 571	308	299	38	32 731	18 692	30	7	18
Musicians and composers	—	—	16	—	1 486	292	5	—	—
Actors and directors	110	—	159	10	203	77	—	—	—
Painters, sculptors, craft-artists, and artist printmakers	459	237	159	32	22 601	9 013	28	20	176
Photographers	69	16	88	23	19 355	4 428	7	—	6
Dancers	—	—	—	—	—	—	—	—	—
Artists, performers, and related workers, n.e.c.	23	12	88	22	1 192	565	—	—	—
Editors and reporters	673	482	150	63	5 612	2 683	21	15	54
Public relations specialists	653	392	284	148	2 087	1 165	224	83	11
Announcers	—	—	—	—	79	46	—	—	—
Athletes	7	—	—	—	716	34	—	—	30

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Business and repair services—Con.														
	Computer and data processing services		Detective and protective services		Business services, n.e.c.		Automotive services, except repair		Automotive repair shops		Electrical repair shops		Miscellaneous repair services	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Technical, sales, and administrative support occupations	208 120	110 077	35 419	19 964	368 459	250 341	55 776	36 092	56 750	37 144	20 826	13 101	34 565	20 411
Technicians and related support occupations	64 212	16 180	4 471	1 325	30 098	6 860	856	327	574	65	2 705	116	4 176	527
Health technologists and technicians	227	105	46	35	241	149	12	12	2	—	9	—	48	13
Clinical laboratory technologists and technicians	87	33	10	5	82	40	—	—	—	—	—	—	12	—
Dental hygienists	4	—	—	—	—	—	—	—	—	—	—	—	—	—
Health record technologists and technicians	17	17	5	5	11	11	—	—	—	—	—	—	—	—
Radiologic technicians	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Licensed practical nurses	39	27	14	14	74	62	12	12	2	—	9	—	—	—
Health technologists and technicians, n.e.c.	80	28	17	11	65	36	—	—	—	—	—	—	36	13
Engineering and related technologists and technicians	8 677	1 091	1 132	103	20 298	3 937	89	—	261	6	1 648	43	1 111	41
Electrical and electronic technicians	7 268	753	701	31	3 903	298	40	—	102	—	1 522	43	779	19
Industrial engineering technicians	20	—	—	—	72	28	—	—	17	—	—	—	3	—
Mechanical engineering technicians	38	—	4	—	58	17	6	—	14	—	6	—	26	6
Engineering technicians, n.e.c.	512	118	104	29	2 710	560	14	—	66	—	73	—	134	14
Drafting occupations	811	211	323	43	13 272	2 972	19	—	56	—	47	—	158	2
Surveying and mapping technicians	28	9	—	—	283	62	10	—	6	—	—	—	11	—
Science technicians	631	263	51	32	934	307	27	15	42	12	46	—	43	7
Biological technicians	24	3	8	—	92	20	2	—	17	—	—	—	—	—
Chemical technicians	47	16	4	—	184	64	7	7	5	—	46	—	42	7
Science technicians, n.e.c.	560	244	39	32	658	223	18	6	25	7	—	—	—	—
Technicians, except health, engineering, and science	54 677	14 721	3 242	1 155	8 625	2 467	728	300	269	47	1 002	73	2 974	466
Airplane pilots and navigators	67	—	21	—	296	5	25	—	—	—	—	—	—	—
Air traffic controllers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadcast equipment operators	109	49	1 511	730	886	246	91	68	12	—	69	32	18	14
Computer programmers	51 113	13 710	4 777	159	2 889	912	326	63	35	8	53	15	45	20
Tool programmers, numerical control	373	154	6	—	36	24	5	—	5	—	19	13	—	—
Legal assistants	127	87	83	47	583	315	202	148	44	22	—	—	12	4
Technicians, n.e.c.	2 888	721	1 144	219	3 935	965	79	21	173	17	861	13	2 886	428
Sales occupations	13 620	2 581	6 348	828	73 867	32 860	26 854	13 408	15 231	1 577	4 131	1 026	8 449	1 569
Supervisors and proprietors, sales occupations	2 044	185	1 065	41	7 822	1 963	2 539	240	7 500	194	1 842	80	2 082	184
Salaries	2 010	180	999	25	6 647	1 707	2 215	201	5 640	139	1 493	59	1 407	79
Self-employed	34	5	66	16	1 175	256	324	39	1 860	55	349	21	675	105
Sales representatives, finance and business services	11 032	2 167	4 630	501	46 092	17 886	3 928	1 144	3 004	390	1 354	467	5 018	950
Insurance sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Real estate sales occupations	23	5	20	—	920	139	99	31	66	5	20	11	—	—
Securities and financial services sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Advertising and related sales occupations	81	41	67	—	914	425	20	—	7	7	—	—	6	—
Sales occupations, other business services	10 928	2 121	4 543	501	44 238	17 322	3 809	1 113	2 931	378	1 334	456	5 012	950
Sales representatives, commodities, except retail	139	17	83	—	330	12	6	—	19	—	65	—	126	—
Sales engineers	139	17	83	—	330	12	6	—	19	—	65	—	126	—
Sales representatives, mining, manufacturing, and wholesale	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services	311	145	555	279	14 632	11 399	20 367	12 018	4 701	993	850	459	1 212	435
Sales workers, commodities	55	6	18	—	247	46	1 051	136	3 737	337	337	192	849	226
Sales counter clerks	27	7	59	18	1 620	738	12 002	7 627	155	112	47	29	102	35
Cashiers	98	64	350	203	3 754	3 420	7 233	4 220	789	524	112	103	175	106
Street and door-to-door sales workers	112	61	119	58	8 860	7 136	60	25	20	20	151	132	86	68
News vendors	19	9	9	—	151	59	21	10	—	—	3	3	—	—
Sales related occupations	94	67	15	7	4 991	1 600	14	6	7	—	20	20	11	—
Demonstrators, promoters and models, sales	31	31	7	7	1 068	987	8	—	7	—	20	20	—	—
Auctioneers	—	—	6	—	3 498	478	—	—	—	—	—	—	5	—
Sales support occupations, n.e.c.	63	36	2	—	425	135	6	6	—	—	—	—	6	—
Administrative support occupations, including clerical	130 288	91 316	24 600	17 811	264 494	210 621	28 066	22 357	40 945	35 502	13 990	11 959	21 940	18 315
Supervisors, administrative support occupations	12 737	5 828	1 504	618	12 431	7 582	1 571	879	663	381	346	203	738	392
Supervisors, general office	5 625	3 340	970	441	6 907	4 864	1 039	612	508	332	267	174	536	332
Supervisors, computer equipment operators	5 581	1 737	72	—	403	155	28	15	—	—	6	—	—	—
Supervisors, financial records processing	941	514	295	126	2 929	1 424	373	188	82	49	61	29	86	27
Chief communications operators	22	9	35	23	290	250	4	—	2	—	—	—	—	—
Supervisors, communications operators	568	228	132	28	1 902	889	127	64	71	—	12	—	116	33
Supervisors, distribution, scheduling, and adjusting clerks	30 650	12 195	782	395	5 100	3 362	593	390	241	193	98	88	116	71
Computer equipment operators	29 186	11 536	754	378	4 818	3 139	571	368	227	191	98	88	110	65
Peripheral equipment operators	1 464	659	28	17	282	223	22	22	14	2	—	—	6	6

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Business and repair services—Con.															
Computer and data processing services		Detective and protective services		Business services, n.e.c.		Automotive services, except repair		Automotive repair shops		Electrical repair shops		Miscellaneous repair services			
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
18 314	18 112	8 048	7 854	78 160	74 593	6 244	6 176	11 720	11 585	4 471	4 413	6 882	6 775		
15 640	15 494	7 015	6 860	45 749	45 177	5 698	5 670	11 325	11 251	4 102	4 046	6 398	6 326		
151	144	71	58	10 734	8 438	30	16	8 357	8 281	38	38	10	10		
2 523	2 474	962	936	21 677	20 978	516	490	338	327	331	309	474	439		
2 604	2 461	1 230	1 079	13 142	12 137	1 407	1 252	1 233	1 122	1 180	1 111	885	796		
304	259	97	40	1 927	1 598	35	10	10	10	16	10	18	18		
50	50	36	22	207	165	292	216	—	—	8	—	—	—		
1 789	1 777	800	762	5 792	5 615	724	690	876	867	576	561	506	486		
461	375	297	235	3 216	3 111	356	311	341	239	580	540	361	292		
4 036	2 871	596	336	8 268	6 466	1 708	989	615	377	348	259	656	297		
21	7	3	3	146	94	10	—	—	—	—	—	12	—		
77	71	26	13	172	87	14	14	—	—	—	—	—	—		
886	536	158	54	3 012	2 107	1 097	467	379	166	244	180	421	125		
261	223	132	102	257	218	113	67	35	35	4	23	25	6		
57	36	7	2	45	39	—	—	5	—	23	23	—	—		
1 933	1 438	221	149	4 072	3 499	428	395	189	169	64	51	192	160		
801	560	49	13	564	422	46	46	7	7	13	5	6	6		
6 496	5 587	2 628	2 314	23 588	21 354	7 142	6 431	18 317	17 102	3 757	3 485	7 311	6 773		
4 689	4 047	2 100	1 891	19 777	18 091	6 516	5 843	17 785	16 749	3 531	3 305	6 863	6 455		
920	786	361	289	969	845	139	139	138	103	65	54	156	107		
551	506	124	113	2 023	1 852	420	394	283	231	140	111	226	184		
122	82	21	6	462	235	44	32	106	19	21	15	58	19		
166	122	22	15	357	231	23	23	5	—	—	—	8	8		
764	428	160	67	5 115	3 515	55	43	21	21	67	10	14	6		
180	115	26	15	1 542	935	6	6	8	8	21	—	8	—		
64	25	16	6	556	400	—	—	—	—	—	—	—	—		
520	288	118	46	3 017	2 180	49	37	13	13	46	10	6	6		
535	463	687	552	24 062	22 804	107	98	71	71	79	75	64	51		
465	420	596	511	17 032	16 231	107	98	71	71	74	70	50	45		
49	34	18	5	231	158	—	—	—	—	—	—	6	6		
21	9	73	36	6 799	6 415	—	—	—	—	5	5	8	8		
2 273	700	874	210	15 074	5 114	222	94	410	72	87	7	159	45		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
1 341	545	198	82	6 450	3 771	152	73	—	—	—	—	—	—		
932	135	676	128	8 624	1 343	70	21	56	6	47	7	54	20		
5 298	2 638	3 965	1 742	17 160	7 621	2 619	1 098	354	66	40	—	105	25		
377	226	3 041	1 448	926	333	1 113	466	2 860	598	222	453	2 033	641		
2 027	1 141	249	127	2 714	1 323	745	292	277	208	310	208	190	129		
846	152	338	69	3 798	1 499	140	57	187	64	197	42	224	93		
1 026	401	212	32	7 655	3 432	430	120	378	67	349	95	614	153		
—	—	—	—	—	—	—	—	1 920	311	309	89	877	250		
40	9	64	36	934	404	60	53	16	4	6	6	44	7		
—	—	—	—	196	16	—	—	—	—	—	—	—	—		
913	692	47	30	772	499	124	103	82	47	51	13	82	9		
69	17	14	—	165	115	7	7	—	—	—	—	—	—		
3 815	2 109	1 196	386	24 236	14 331	1 080	512	—	77	216	41	225	55		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
3 593	1 952	931	296	10 878	6 738	706	401	290	63	190	30	207	54		
19	19	—	—	57	55	—	—	4	4	—	—	—	—		
203	138	265	90	13 301	7 538	374	111	49	10	26	11	18	1		
42 766	37 924	2 930	2 258	38 158	31 742	5 318	4 395	4 451	3 903	2 119	1 814	2 857	2 413		
5 664	4 494	1 895	1 531	21 621	18 307	4 092	3 403	4 157	3 691	1 883	1 692	2 522	2 131		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
610	494	27	23	600	485	4	4	—	—	—	—	—	—		
32 897	31 098	488	434	6 967	6 477	686	654	111	90	78	64	184	182		
1 394	596	104	57	1 200	905	151	101	87	79	49	19	48	37		
31	31	14	7	65	49	—	—	7	—	—	—	14	6		
2 170	1 211	402	213	7 705	5 519	385	233	89	43	109	39	89	57		

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Business and repair services—Con.											
Computer and data processing services		Detective and protective services		Business services, n.e.c.		Automotive services, except repair		Automotive repair shops		Electrical repair shops	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
3 265	793	167 389	22 375	15 754	5 312	4 172	509	3 979	399	799	250
—	—	—	—	—	—	—	—	—	—	—	—
999	160	164 207	21 289	2 947	364	508	42	285	25	59	9
37	5	6 109	645	143	31	5	5	65	—	—	—
—	—	130	3	16	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
37	5	5 979	642	127	26	5	5	65	—	—	—
7	—	661	11	87	—	—	—	—	—	—	—
7	—	373	6	19	—	—	—	—	—	—	—
—	—	288	5	68	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
955	155	157 437	20 633	2 717	333	503	37	220	25	59	9
—	—	61	23	—	—	—	—	—	—	—	—
937	142	156 911	20 528	2 647	305	497	37	220	25	59	9
18	13	465	82	70	28	6	—	—	—	—	—
2 266	633	3 182	1 086	12 807	4 948	3 664	467	3 694	374	740	241
130	64	542	194	1 437	923	113	52	129	38	79	42
—	—	—	—	133	82	8	8	6	—	—	—
—	—	5	—	52	20	—	—	—	—	—	—
21	10	31	23	298	230	27	14	61	23	16	—
35	19	353	51	490	332	52	13	8	8	34	31
—	—	5	—	7	—	6	6	22	7	8	—
—	—	6	—	—	—	—	—	—	—	—	—
12	—	—	—	94	71	6	6	—	—	—	—
30	9	19	5	21	13	—	—	—	—	—	—
19	19	15	15	108	44	5	5	14	—	—	—
13	7	108	100	234	131	9	—	18	—	—	—
94	50	126	61	461	352	12	7	—	—	—	—
13	—	—	—	6	6	—	—	7	—	6	—
18	6	21	—	57	34	5	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
1 898	448	1 057	61	378	312	3 184	359	3 454	283	551	127
103	14	122	624	8 862	2 101	75	7	110	3	130	410
67	31	234	103	304	572	321	69	331	7	92	13
1 647	386	1 326	472	7 777	1 486	2 798	290	3 331	276	375	101
21	7	74	—	136	47	—	—	—	—	—	—
58	—	—	—	236	19	—	—	—	—	—	—
144	81	517	207	2 047	1 572	345	49	104	53	104	72
2	2	30	23	45	15	40	5	8	—	8	—
14	5	5	—	25	7	12	7	12	—	101	7
5	2	—	—	—	—	—	—	—	—	—	—
—	—	—	—	122	99	—	—	44	32	76	67
22	20	31	4	138	83	159	7	12	12	38	15
—	—	34	22	115	61	—	—	—	—	2	—
37	12	265	58	23	11	5	—	—	—	—	—
—	—	35	12	48	6	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
20	20	11	5	156	113	9	9	—	—	—	—
44	20	106	83	1 400	1 184	107	26	31	9	12	5
112	17	114	28	715	169	193	19	62	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
17	17	—	—	52	43	—	—	—	—	—	—
95	—	91	28	453	103	184	19	57	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
88	—	86	23	378	80	169	8	48	—	—	—
—	—	5	5	46	23	15	11	9	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
7	—	—	—	22	—	—	—	—	—	—	—

Employed persons 16 years and over—Con.

Service occupations

Private household occupations

Protective services

Supervisors, protective service occupations

Supervisors, firefighting and fire prevention occupations

Supervisors, police and detectives

Supervisors, guards

Firefighting and fire prevention occupations

Fire inspection and fire prevention occupations

Firefighting occupations

Police and detectives

Police and detectives, public service

Sheriffs, deputies, and other law enforcement officers

Correctional institution officers

Guards

Lossing guards

Guards and police, except public service

Protective service occupations, n.e.c.

Service occupations, except protective and household

Food preparation and service occupations

Supervisors, food preparation and service occupations

Barenders

Waiters and waitresses

Cooks, except short order

Short-order cooks

Food counter, fountain and related occupations

Kitchen workers, food preparation

Waiters' and waitresses' assistants

Miscellaneous food preparation occupations

Health service occupations

Dental assistants

Health aides, except nursing

Nursing aides, orderlies, and attendants

Cleaning and building service occupations, except household

Supervisors, cleaning and building service workers

Maid and housemen

Janitors and cleaners

Elevator operators

Pest control occupations

Personal service occupations

Supervisors, personal service occupations

Barbers

Hairdressers and cosmetologists

Attendants, amusement and recreation facilities

Guides

Ushers

Public transportation attendants

Baggage porters and bellhops

Welfare service aides

Child care workers, except private household

Personal service occupations, n.e.c.

Farming, forestry, and fishing occupations

Farm operators and managers

Farm occupations, except managerial

Related agricultural occupations

Supervisors, related agricultural occupations

Groundkeepers and gardeners, except farm

Animal caretakers, except farm

Graders and sorters, agricultural products

Inspectors, agricultural products

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

Business and repair services—Con.														
	Computer and data processing services		Detective and protective services		Business services, n.e.c.		Automotive services, except repair		Automotive repair shops		Electrical repair shops		Miscellaneous repair services	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con.														
Supervisors, forestry and logging workers	—	—	10	—	157	17	9	—	5	—	—	—	12	—
Forestry workers, except logging	—	—	—	—	37	17	—	—	—	—	—	—	—	—
Timber cutting and logging occupations	—	—	10	—	120	—	9	—	5	—	—	—	—	—
Fishers, hunters, and trappers	—	—	13	—	53	6	—	—	—	—	—	—	8	—
Captains and other officers, fishing vessels	—	—	13	—	18	—	—	—	—	—	—	—	8	—
Fishers	—	—	—	—	16	6	—	—	—	—	—	—	—	—
Hunters and trappers	—	—	—	—	19	—	—	—	—	—	—	—	—	—
Precision production, craft, and repair occupations	22 088	1 756	12 758	496	45 865	5 834	34 349	847	519 230	6 032	101 075	1 892	166 026	12 967
Mechanics and repairers	18 508	936	4 422	96	24 636	976	30 645	494	505 447	5 276	96 204	1 763	108 702	3 626
Supervisors, mechanics and repairers	41	—	200	12	1 126	93	2 218	41	13 522	2 241	1 506	28	2 679	39
Mechanics and repairers, except supervisors	18 101	895	4 222	84	23 510	883	28 427	453	491 925	5 035	94 698	1 735	106 023	3 587
Vehicle and mobile equipment mechanics and repairers	193	—	805	10	4 090	55	26 221	358	481 136	4 836	1 919	20	28 361	272
Automobile mechanics	152	—	585	—	1 436	19	17 058	276	337 071	3 378	1 048	5	4 091	103
Bus, truck, and stationary engine mechanics	—	—	57	3	313	7	6 148	46	16 608	113	119	—	6 202	29
Aircraft mechanics	—	—	13	—	307	3	52	—	88	8	57	—	322	5
Aircraft engine mechanics	—	—	14	—	307	6	52	—	549	23	132	7	7 723	96
Small engine repairers	6	—	115	2	76	—	2 660	36	125 200	1 269	188	—	541	—
Automobile body and related repairers	17	—	11	5	12	7	12	—	105	5	35	—	64	—
Aircraft mechanics, except engine	—	—	5	—	1 451	14	215	—	1 340	8	300	8	4 133	25
Heavy equipment mechanics	6	—	—	—	—	—	—	—	—	—	—	—	—	—
Farm equipment mechanics	12	—	5	—	58	—	62	—	215	8	—	—	5 285	14
Industrial machinery repairers	731	69	153	—	3 516	115	450	23	1 232	28	1 799	38	5 657	79
Machinery maintenance occupations	13	—	12	—	430	24	42	—	117	2	30	—	197	—
Electrical and electronic equipment repairers	15 478	701	1 050	31	4 974	289	339	2	2 765	121	66 156	1 313	5 614	255
Electronic repairers, communications and industrial equipment	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Data processing equipment repairers	589	21	413	17	3 184	153	164	—	694	35	39 533	766	1 450	45
Household appliance and power tool repairers	14 390	664	283	6	605	44	103	—	65	7	585	24	223	21
Telephone line installers and repairers	142	—	114	—	542	41	103	2	181	16	21 158	301	2 554	78
Telephone installers and repairers	239	5	102	—	26	6	—	—	7	—	38	—	14	—
Miscellaneous electrical and electronic equipment repairers	91	—	138	8	276	31	12	—	17	—	306	53	323	100
Heating, air conditioning, and refrigeration mechanics	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous mechanics and repairers	68	11	33	—	341	14	50	—	1 801	63	4 536	169	1 050	11
Camera, watch, and musical instrument repairers	1 618	114	2 169	43	353	—	158	—	233	—	18 463	122	4 978	23
Locksmiths and safe repairers	24	—	53	—	10 147	400	1 217	70	6 422	48	6 331	242	61 216	2 958
Office machine repairers	—	—	210	—	441	22	9	—	25	—	132	7	15 139	1 078
Mechanical controls and valve repairers	585	38	36	—	55	9	23	8	27	7	26	—	11 788	826
Elevator installers and repairers	9	—	—	—	2 096	82	40	7	97	—	1 452	84	5 267	173
Milwrights	17	7	32	—	96	23	42	16	13	—	145	18	593	15
Specified mechanics and repairers, n.e.c.	244	5	1 191	32	185	11	4	—	179	6	58	—	627	—
Not specified mechanics and repairers	739	64	635	11	3 785	151	751	22	4 296	31	2 848	82	20 983	725
Construction trades	588	59	6 725	140	7 457	362	719	18	3 678	85	3 378	51	5 410	141
Supervisors, construction occupations	43	6	243	—	467	32	31	—	79	—	174	—	225	177
Supervisors, brickmasons, stonemasons, and tile setters	—	—	—	—	7	—	—	—	—	—	18	—	2	—
Supervisors, carpenters and related workers	—	—	5	—	23	—	—	—	1	—	—	—	36	—
Supervisors, electricians and power transmission installers	13	—	35	—	69	9	3	—	39	—	104	—	32	—
Supervisors, painters, paperhangers, and plasterers	—	—	—	—	15	—	—	—	—	—	—	—	—	—
Supervisors, plumbers, pipefitters, and steamfitters	—	—	21	—	63	16	—	—	—	—	—	—	—	—
Supervisors, n.e.c.	30	6	182	—	290	7	28	—	39	—	52	—	148	—
Construction trades, except supervisors	545	53	6 482	140	6 990	330	688	18	3 599	85	3 204	51	5 185	177
Brickmasons and stonemasons	10	—	13	2	42	—	13	—	27	—	23	—	85	—
Tile setters, hard and soft	—	—	—	—	18	—	16	—	—	—	—	—	34	—
Carpet installers	—	—	4	—	153	24	10	—	32	—	7	—	27	6
Carpenters	110	15	87	6	1 362	42	176	7	368	10	95	6	1 052	32
Drywall installers	9	—	34	—	869	24	82	—	7	—	23	—	21	—
Electricians	258	26	4 942	114	667	24	3	—	339	14	2 618	32	854	13
Electrical power installers and repairers	19	—	72	—	63	—	13	—	6	—	23	—	38	—
Painters, construction and maintenance	46	—	64	4	1 229	110	270	4	1 990	37	62	7	696	89
Paperhangers	3	—	—	—	174	43	—	—	—	—	—	—	11	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Business and repair services—Con.														
Computer and data processing services			Detective and protective services		Business services, n.e.c.		Automotive services, except repair		Automotive repair shops		Electrical repair shops		Miscellaneous repair services	
Total	Female		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Precision production, craft, and repair occupations—Con.														
Construction trades—Con.														
Construction trades, except supervisors—Con.														
Plasterers														
64	4	7	18	26	47	—	22	7	136	6	—	—	1 076	—
—	—	—	50	—	—	—	—	—	6	—	—	—	198	10
8	8	7	20	6	7	—	630	12	41	—	—	—	42	—
—	—	—	43	6	—	—	5	—	—	—	—	—	6	—
—	—	6	11	—	2	—	7	—	—	—	—	—	62	—
—	—	—	24	—	—	—	—	—	101	—	—	—	32	—
—	—	7	42	—	12	—	9	—	—	—	—	—	126	—
6	—	—	25	—	—	—	38	5	69	—	—	—	42	—
12	8	36	1 051	49	31	—	22	—	7	—	—	—	783	27
17	—	24	135	12	5	—	15	—	5	—	—	—	81	8
5	—	10	78	5	—	—	7	—	—	—	—	—	33	—
6	—	7	14	—	—	—	—	—	—	—	—	—	30	8
—	—	—	19	—	—	—	—	—	2	—	—	—	9	—
6	—	7	5	—	5	—	—	—	—	—	—	—	4	—
—	—	7	39	7	—	—	—	—	—	—	—	—	—	—
2 975	761	1 587	13 617	4 484	2 980	335	10 083	671	1 486	78	51 833	9 156	—	—
1 741	541	1 247	8 368	2 724	2 146	237	2 504	85	546	23	3 732	77	—	—
227	28	87	1 546	200	152	15	2 093	66	659	19	7 018	159	—	—
11	—	5	130	6	2	—	57	—	—	—	944	17	—	—
36	16	10	822	68	10	—	20	—	6	—	55	—	—	—
159	12	72	54	—	6	—	1 895	60	538	6	2 477	27	—	—
—	—	—	54	—	6	—	11	—	32	6	1 839	16	—	—
—	—	6	6	—	7	—	9	—	13	7	775	39	—	—
7	—	—	68	23	—	—	—	—	—	—	18	—	—	—
—	—	—	44	22	—	—	18	—	5	—	38	—	—	—
—	—	—	62	9	—	—	—	—	—	—	527	46	—	—
—	—	—	185	72	7	—	—	—	4	—	20	14	—	—
14	—	—	175	—	8	8	83	6	61	—	316	—	—	—
—	—	—	—	—	—	—	—	—	—	—	9	—	—	—
—	—	—	176	15	47	6	69	11	24	2	13 976	1 818	—	—
—	—	—	14	5	—	—	—	—	—	—	29	—	—	—
—	—	—	92	—	30	3	18	5	11	—	6 234	662	—	—
—	—	—	56	6	17	—	—	—	13	2	7 684	1 149	—	—
—	—	—	4	—	—	—	—	—	—	—	29	—	—	—
13	5	27	1 477	1 259	106	16	3 962	336	18	7	25 985	6 885	—	—
5	5	22	1 191	1 122	—	—	206	165	7	7	634	534	—	—
—	—	—	42	20	—	—	—	—	—	—	—	—	—	—
—	—	—	150	61	106	16	3 750	171	11	—	25 151	6 272	—	—
—	—	—	11	—	—	—	2	—	—	—	151	39	—	—
—	—	—	78	50	—	—	—	—	—	—	10	20	—	—
7	—	5	—	—	—	—	—	—	—	—	25	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
224	140	34	460	197	10	—	84	36	117	27	278	36	—	—
—	—	—	57	10	—	—	—	—	—	—	55	—	—	—
5	—	—	75	34	—	—	—	—	6	—	13	5	—	—
9	9	—	22	4	—	—	—	—	—	—	73	14	—	—
15	7	—	—	—	—	—	5	—	—	—	46	—	—	—
—	—	—	20	15	—	—	—	—	—	—	—	—	—	—
4	—	24	189	112	6	—	47	36	107	27	29	3	—	—
169	124	10	97	22	4	—	32	—	4	—	62	14	—	—
22	—	—	124	15	27	5	91	—	—	—	413	79	—	—
—	—	—	106	8	16	—	23	—	—	—	99	18	—	—
—	—	—	11	—	6	—	14	—	—	—	13	—	—	—
—	—	—	7	7	5	—	54	—	—	—	301	61	—	—
114	28	40	542	42	457	56	1 182	137	60	—	255	37	—	—
114	28	40	536	42	457	56	1 182	137	60	—	232	27	—	—
—	—	—	6	—	—	—	—	—	—	—	23	10	—	—

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Construction trades—Con.

Construction trades, except supervisors—Con.

Plasterers

Plumbers, pipefitters, and steamfitters

Concrete and terrazzo finishers

Glaziers

Insulation workers

Paving, surfacing, and tamping equipment operators

Roofers

Sheetmetal duct installers

Structural metal workers

Drillers, earth

Construction trades, n.e.c.

Extractive occupations

Supervisors, extractive occupations

Drillers, oil well

Explosives workers

Mining machine operators

Mining occupations, n.e.c.

Precision production occupations

Supervisors, production occupations

Precision metalworking occupations

Tool and die makers

Precision assemblers, metal

Machinists

Boilermakers

Precision grinders, filers, and tool sharpeners

Patternmakers and model makers, metal

Lay-out workers

Precious stones and metals workers (jewelers)

Engravers, metal

Sheet metal workers

Miscellaneous precision metal workers

Precision woodworking occupations

Patternmakers and model makers, wood

Cabinet makers and bench carpenters

Furniture and wood finishers

Miscellaneous precision woodworkers

Precision textile, apparel, and furnishings machine workers

Dressmakers

Tailors

Linen finishers

Shoe makers

Apparel and fabric patternmakers

Miscellaneous precision apparel and fabric workers

Precision workers, assorted materials

Hand molders and shapers, except jewelers

Patternmakers, lay-out workers, and cutters

Optical goods workers

Dental laboratory and medical appliance technicians

Bookbinders

Electrical and electronic equipment assemblers

Miscellaneous precision workers, n.e.c.

Precision food production occupations

Butchers and meat cutters

Bakers

Food batchmakers

Precision inspectors, testers, and related workers

Inspectors, testers, and graders

Adjusters and calibrators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

Business and repair services—Con.											
Computer and data processing services			Detective and protective services			Business services, n.e.c.			Automotive services, except repair		
Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female	Total
656	19	152	11	32	924	35	—	98	62	—	176
12	—	6	—	—	103	—	—	—	—	—	10
9	—	7	—	8	20	—	—	—	—	—	—
635	19	120	6	13	710	28	—	91	56	—	128
—	—	19	5	11	91	7	—	7	6	—	38
7 085	2 762	5 988	933	39 032	115 388	80 412	7 426	69 849	6 650	915	91 246
4 491	2 304	2 084	553	29 020	68 777	2 306	257	37 983	3 619	713	73 372
2 856	1 318	1 081	306	24 106	48 292	1 631	174	29 412	2 601	545	4 099
209	106	15	—	82	388	106	7	869	154	22	2 354
—	—	—	—	—	56	—	—	—	—	—	416
63	47	8	—	16	58	9	—	119	57	—	141
—	—	—	—	5	23	6	—	—	—	—	358
37	13	—	—	34	100	—	—	20	—	—	—
—	—	—	—	—	6	—	—	46	8	—	218
28	9	—	—	—	—	—	—	37	—	—	69
—	—	—	—	—	—	—	—	—	—	—	—
25	15	—	—	27	322	59	—	564	73	14	4 229
15	15	7	—	—	20	14	—	12	—	—	70
—	—	—	—	—	—	—	—	41	—	—	—
35	7	—	—	—	23	18	7	30	11	—	228
—	—	—	—	—	—	—	—	—	—	—	—
5	7	—	—	25	95	4	—	60	53	14	84
60	7	23	16	166	395	4	—	204	53	—	219
38	—	—	—	134	285	—	—	140	29	—	76
22	7	7	—	32	82	4	—	64	17	—	30
—	—	—	—	—	18	—	—	—	—	—	75
—	—	—	—	—	—	—	—	—	—	—	—
—	—	16	16	—	10	—	—	—	7	—	38
11	11	13	6	21	140	—	—	43	—	—	267
—	—	5	—	—	—	—	—	—	—	—	—
11	11	2	—	8	57	—	—	11	—	—	83
—	—	—	—	—	—	—	—	32	—	—	—
—	—	—	—	2	—	—	—	—	—	—	—
—	—	6	6	11	81	—	—	—	—	—	184
638	316	94	39	2 014	4 433	15	—	30	13	6	54
343	64	69	20	1 044	2 823	15	—	24	7	—	19
58	15	16	10	416	734	6	—	6	—	—	—
172	459	9	9	468	732	—	—	—	—	—	—
65	48	—	—	86	144	—	—	—	—	—	18
62	34	114	35	649	987	73	20	167	6	6	17
—	—	6	—	1	9	—	—	2	55	29	1 280
—	—	—	—	—	—	—	—	—	—	—	44
—	—	—	—	12	23	—	—	—	—	—	8
—	—	—	—	31	31	—	—	—	—	—	25
—	—	—	16	513	646	—	—	99	5	—	1 006
13	—	54	—	6	6	—	—	14	—	—	—
—	—	—	—	30	44	13	7	21	—	—	39
—	—	—	19	49	122	43	—	12	29	43	20
—	—	54	—	38	106	13	13	19	21	—	66
—	—	—	—	—	—	—	—	—	—	—	—
1 871	844	822	210	21 149	41 654	1 429	147	28 039	2 273	474	5 040
—	—	—	—	137	285	—	—	—	—	—	32
19	6	—	—	516	925	—	—	20	7	—	60
23	23	—	—	23	232	16	6	13	—	—	14
46	11	—	—	74	232	73	—	73	—	—	47
7	—	21	—	13	100	6	—	30	—	—	35
—	—	—	21	62	91	—	—	54	—	—	16
39	10	8	—	45	392	797	25	24 633	109	—	824
8	—	—	—	—	15	18	8	5	6	—	66

Employed persons 16 years and over—Con

Precision production, craft, and repair occupations—Con
 Precision production occupations—Con
 Plant and system operators
 Water and sewage treatment plant operators
 Power plant operators
 Stationary engineers
 Miscellaneous plant and system operators
 Operators, fabricators, and laborers
 Machine operators, assemblers, and inspectors
 Machine operators and tenders, except precision
 Machine operators and plastic working machine operators
 Metalworking and plastic working machine operators
 Lathes and turning machine set-up operators
 Lathes and turning machine operators
 Milling and planing machine operators
 Planing machine operators
 Punching and stamping press machine operators
 Rolling machine operators
 Drilling and boring machine operators
 Grinding, abrading, burning, and polishing machine operators
 Forging machine operators
 Heat treating machine operators
 Miscellaneous metal, plastic, stone, and glass working machine operators
 Fabricating machine operators, n.e.c.
 Metal and plastic processing machine operators
 Molding and casting machine operators
 Metal plating machine operators
 Heat treating equipment operators
 Miscellaneous metal and plastic processing machine operators
 Woodworking machine operators
 Wood lathe, routing, and planing machine operators
 Sawing machine operators
 Shaping and joining machine operators
 Nailing and tacking machine operators
 Miscellaneous woodworking machine operators
 Printing machine operators
 Printing machine operators
 Photoengravers and lithographers
 Typesetters and compositors
 Miscellaneous printing machine operators
 Textile, apparel, and furnishings machine operators
 Winding and twisting machine operators
 Knitting, looping, taping, and weaving machine operators
 Textile cutting machine operators
 Textile sewing machine operators
 Shoe machine operators
 Pressing machine operators
 Laundering and dry cleaning machine operators
 Miscellaneous textile machine operators
 Machine operators, assorted materials
 Cementing and filling machine operators
 Packaging and gluing machine operators
 Extruding and forming machine operators
 Mixing and blending machine operators
 Separating, filtering, and clarifying machine operators
 Compressing and compacting machine operators
 Painting and paint spraying machine operators
 Roasting and baking machine operators, food
 Washing, cleaning, and pickling machine operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.
 [Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Business and repair services—Con.											
Computer and data processing services			Detective and protective services			Business services, n.e.c.			Automotive services, except repair		
Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female	Total
1	9	122	4	68	125	22	17	6	17	355	17
18	9	122	4	15	19	6	6	6	6	40	14
43	25	86	2	411	244	26	26	244	6	638	240
6	6	141	57	30	20	13	32	5	32	4	4
365	150	278	40	15 482	123	31	144	1 757	1 394	1 341	15
472	278	297	86	2 743	299	36	92	1 770	394	1 341	296
824	326	645	194	3 197	740	48	374	8 222	1 668	60 510	208
1 142	730	1 228	7	1 264	350	7	59	4 604	464	57 355	1 646
107	31	30	23	14	7	—	—	45	33	110	952
31	681	344	148	1 918	255	25	143	3 200	438	2 827	48
973	6	7	—	7	—	—	—	—	5	614	614
6	—	60	—	10	81	17	6	8	6	59	7
9	—	—	—	1 001	18	—	—	78	12	99	15
9	—	—	—	132	—	—	—	49	—	13	—
16	16	76	16	38	29	6	165	238	—	28	10
493	256	358	55	1 717	135	35	56	349	60	585	99
309	138	323	49	863	130	35	31	286	56	419	45
43	30	30	6	42	5	—	16	42	4	54	—
2	88	5	—	81	—	—	9	21	—	3	—
139	—	—	—	731	—	—	—	—	—	109	54
1 768	170	2 758	191	2 483	40 043	3 405	1 019	8 648	1 328	5 467	193
1 607	110	2 649	175	2 233	39 521	3 358	994	8 285	1 255	4 252	163
7	63	63	9	40	1 156	103	11	28	11	8	—
292	22	1 387	61	245	15 140	519	149	5 076	358	2 715	38
1 080	73	531	50	1 429	885	111	612	2 098	748	1 187	82
18	5	55	5	159	42	10	17	144	69	195	29
190	10	40	24	49	822	431	115	216	—	10	2
20	—	101	31	289	4 997	1 500	52	472	40	85	11
—	—	12	—	3	16 428	1 029	38	241	29	52	1
—	—	—	—	—	51	5	—	20	—	—	—
9	5	23	5	14	14	—	—	31	12	23	—
9	5	14	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	27	12	18	—
—	—	—	—	—	—	—	—	4	—	5	—
—	—	—	—	—	—	—	—	—	—	—	—
6	6	20	—	37	49	—	—	5	2	46	3
—	—	8	—	13	28	—	—	5	2	39	—
—	—	12	—	40	7	—	—	—	—	7	—
6	6	30	—	18	14	—	—	—	—	—	—
—	—	6	—	6	—	—	—	—	—	3	—
146	49	66	11	213	459	47	25	327	59	1 146	27
9	—	15	8	90	7	—	—	23	2	18	—
—	—	6	—	636	17	—	—	12	9	57	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
10	5	5	—	—	—	—	—	—	—	—	—
—	—	—	—	20	16	—	—	12	5	21	—
—	—	—	—	2 021	—	—	—	21	10	161	—
—	—	3	—	52	—	—	—	18	3	372	—
25	—	23	—	128	52	12	—	123	16	15	—
102	44	14	3	1 000	169	53	6	118	14	291	2
—	—	—	—	132	186	35	—	—	—	211	23

Employed persons 16 years and over—Con.
 Operators, fabricators, and laborers—Con.
 Machine operators, assemblers, and inspectors—Con.
 Machine operators and tenders, except precision—Con.
 Machine operators, assorted materials—Con.
 Folding machine operators
 Furnace, kiln, and oven operators, except food
 Crushing and grinding machine operators
 Slicing and cutting machine operators
 Motion picture projectionists
 Photographic process machine operators
 Miscellaneous machine operators, n.e.c.
 Machine operators, not specified
 Fabricators, assemblers, and hand working occupations
 Welders and cutters
 Solderers and brazers
 Assemblers
 Hand cutting and trimming occupations
 Hand molding, casting, and forming occupations
 Hand painting, coating, and decorating occupations
 Hand engraving and printing occupations
 Hand grinding and polishing occupations
 Miscellaneous hand working occupations
 Production inspectors, testers, samplers, and weighers
 Production inspectors, checkers, and examiners
 Production testers
 Production samplers and weighers
 Graders and sorters, except agricultural
 Transportation and material moving occupations
 Motor vehicle operators
 Supervisors, motor vehicle operators
 Truck drivers, heavy
 Truck drivers, light
 Driver-sales workers
 Bus drivers
 Taxicab drivers and chauffeurs
 Parking lot attendants
 Motor transportation occupations, n.e.c.
 Railroad conductors and yardmasters
 Locomotive operating occupations
 Railroad brake, signal, and switch operators
 Rail vehicle operators, n.e.c.
 Water transportation occupations
 Ship captains and mates, except fishing boats
 Sailors and deckhands
 Marine engineers
 Bridge, lock, and lighthouse tenders
 Material moving equipment operators
 Supervisors, material moving equipment operators
 Operating engineers
 Longshore equipment operators
 Hoist and winch operators
 Crane and tower operators
 Excavating and loading machine operators
 Grader, dozer, and scraper operators
 Industrial truck and tractor equipment operators
 Miscellaneous material moving equipment operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Business and repair services—Con.													
Computer and data processing services		Detective and protective services		Business services, n.e.c.		Automotive services, except repair		Automotive repair shops		Electrical repair shops		Miscellaneous repair services	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
826	288	1 146	187	23 704	7 529	37 863	3 764	23 218	1 478	1 703	150	12 407	746
24	14	55	23	216	84	32	7	27	—	11	—	23	—
—	—	11	—	125	—	577	39	5 706	399	244	11	450	76
3	—	34	8	171	38	9	—	122	7	23	—	83	10
3	—	34	8	152	35	9	—	109	—	23	—	83	10
—	—	—	—	19	3	—	—	13	7	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
29	—	77	7	369	18	55	—	91	—	34	—	230	10
36	17	42	—	386	81	115	18	3 458	201	392	19	2 201	147
131	30	212	10	2 362	511	498	32	259	13	76	—	403	29
—	—	62	—	39	—	28	—	55	—	—	—	16	—
—	—	—	—	11	6	—	—	—	—	—	—	—	—
55	13	54	2	484	179	258	18	81	6	39	—	48	—
—	—	10	—	167	99	16	—	22	7	2	—	52	24
76	17	86	8	1 661	227	196	14	101	—	35	—	287	5
17	6	41	10	112	—	4 293	439	7 546	319	35	4	109	—
23	5	25	—	616	123	30 004	2 991	3 223	218	107	13	1 476	65
163	82	108	45	6 742	4 742	53	19	117	58	46	15	313	116
400	134	541	84	12 605	1 932	2 227	219	2 669	263	735	88	7 119	293

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers,
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stevedores
 Stock handlers and baggers
 Machine feeders and officers
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

United States	Personal services											
	Total		Private households		Hotels and motels		Lodging places, except hotels and motels		Laundry, cleaning, and garment services		Beauty shops	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	3 075 764	2 165 306	701 460	637 558	857 999	502 176	193 810	153 997	399 862	235 366	561 980	490 326
Managerial and professional specialty occupations	341 637	131 279	9 137	7 269	136 694	55 037	26 121	11 141	54 584	17 862	5 670	3 866
Executive, administrative, and managerial occupations	269 476	96 189	1 973	933	125 340	50 846	23 194	9 520	53 743	17 636	4 965	3 308
Legislators, chief executives, and general administrators; public administration	—	—	—	—	—	—	—	—	—	—	—	—
Administrators and officials, public administration	—	—	—	—	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—	—	—	—	—
Administrators, protective services	39	33	—	—	—	—	—	—	—	—	—	—
Financial managers	2 937	972	21	6	2 214	773	55	12	325	80	24	7
Personnel and labor relations managers	4 194	2 230	39	30	2 183	1 180	258	150	928	421	247	157
Purchasing managers	485	127	11	11	393	78	12	6	25	8	8	—
Managers, marketing, advertising, and public relations	7 347	3 532	25	6	4 022	2 414	81	26	1 429	116	131	72
Administrators, education and related fields	429	278	40	27	103	47	73	57	12	5	151	106
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—
Managers, properties and real estate	2 259	893	77	15	1 187	501	870	346	65	18	13	13
Postmasters and mail superintendents	—	—	—	—	—	—	—	—	—	—	—	—
Federal directors	38 106	3 126	4	—	234	46	9	—	99	6	—	—
Managers and administrators, n.e.c.	191 339	75 730	1 417	661	97 263	38 877	21 370	8 706	49 359	16 326	3 850	2 581
Salaries	136 395	54 773	1 333	536	74 055	28 695	14 034	6 043	29 886	10 889	2 672	1 746
Self-employed	54 944	20 957	284	125	23 208	10 182	7 336	2 663	19 473	5 437	1 178	835
Management related occupations	22 341	9 268	339	177	17 741	6 930	466	217	1 494	649	541	379
Accountants and auditors	15 222	5 946	143	70	13 345	5 066	170	87	319	264	201	139
Underwriters	—	—	—	—	—	—	—	—	—	—	—	—
Other financial officers	535	232	65	29	162	48	21	14	46	15	116	94
Management analysts	634	241	1	—	205	59	13	13	81	23	26	13
Personnel, training, and labor relations specialists	3 615	1 851	108	69	2 038	1 168	125	52	670	254	147	82
Purchasing agents and buyers, farm products	—	—	—	—	31	—	—	—	—	—	—	—
Buyers, wholesale and retail trade except farm products	—	—	—	—	—	—	—	—	—	—	—	—
Business and promotion agents, n.e.c.	1 755	595	13	—	1 393	419	47	15	157	76	51	—
Business and promotion agents	238	132	—	—	142	45	39	29	6	6	—	—
Construction inspectors	51	29	—	—	37	29	14	—	—	—	—	—
Inspectors and compliance officers, except construction	112	70	2	2	80	63	9	4	—	—	—	—
Management related occupations, n.e.c.	148	52	7	7	88	13	28	7	11	11	—	—
Professional specialty occupations	72 161	35 090	7 164	6 336	11 354	4 191	2 927	1 621	841	226	705	558
Engineers, architects, and surveyors	1 509	177	45	15	973	84	45	17	252	53	53	41
Architects	1 621	64	10	5	110	51	7	—	18	3	17	5
Engineers	1 321	113	29	10	857	33	38	17	234	36	36	—
Aerospace engineers	32	—	—	—	26	—	—	—	—	—	—	—
Metallurgical and materials engineers	7	—	—	—	7	—	—	—	—	—	—	—
Mining engineers	22	10	10	10	—	—	—	—	—	—	—	—
Petroleum engineers	—	—	—	—	—	—	—	—	—	—	—	—
Chemical engineers	9	5	—	—	4	5	—	—	—	—	—	—
Nuclear engineers	135	5	3	—	97	—	26	5	9	—	—	—
Civil engineers	—	—	—	—	—	—	—	—	—	—	—	—
Agricultural engineers	—	—	—	—	—	—	—	—	—	—	—	—
Electrical and electronic engineers	289	—	—	—	271	—	—	—	12	—	—	—
Industrial engineers	156	23	7	—	87	12	—	—	45	—	—	—
Mechanical engineers	387	—	—	—	229	—	—	—	131	—	—	—
Marine engineers and naval architects	52	48	4	—	6	6	6	6	—	—	—	—
Engineers, n.e.c.	227	22	5	—	125	10	6	6	37	—	36	36
Surveyors and mapping scientists	26	—	6	—	6	—	—	—	—	—	—	—
Mathematical and computer scientists	436	184	5	5	312	157	26	—	22	8	7	—
Computer systems analysts and scientists	249	69	5	—	178	63	13	—	20	6	7	—
Operations and systems researchers and analysts	86	29	5	—	48	19	—	—	7	—	—	—
Actuaries	13	9	—	—	9	—	—	—	—	—	—	—
Statisticians	88	77	—	—	77	66	—	—	2	2	—	—
Mathematical scientists, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States									
	Private households					Personal services				
	Total	Female	Total	Female	Total	Hotels and motels	Lodging places, except hotels and motels	Laundry, cleaning, and garment services	Beauty shops	Barber shops
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total
283	100	46	5	71	33	41	20	15	13	—
8	—	—	—	—	—	—	—	—	—	—
19	6	6	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—	—
65	15	—	—	2	2	—	—	15	9	—
—	—	—	—	—	—	—	—	—	—	—
81	32	34	5	40	27	7	—	—	—	—
45	26	—	—	2	2	22	14	—	5	—
45	8	6	—	27	2	12	6	—	—	—
18	11	—	—	—	—	—	—	—	8	—
279	128	102	40	18	—	—	—	6	53	2
187	78	83	26	18	—	—	—	6	43	2
19	11	7	7	—	—	—	—	—	43	—
—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
73	39	12	7	—	—	—	—	—	10	—
7556	7 013	5 262	5 020	379	297	169	154	28	78	6
6 067	5 842	4 855	4 667	236	221	89	89	1	19	—
—	—	—	—	47	9	—	—	—	—	—
483	421	26	28	36	30	27	27	—	7	—
665	656	347	300	46	29	41	33	20	11	—
124	85	32	25	14	8	5	5	7	40	6
315	206	39	21	98	44	31	31	—	19	—
13 798	9 891	891	775	2 388	1 052	642	489	92	204	—
217	210	22	22	173	166	6	6	5	5	—
—	—	—	—	—	—	—	—	—	—	—
95	68	70	58	9	—	—	—	—	6	—
13 486	9 613	799	695	2 206	886	636	483	87	193	—
336	231	39	25	41	22	124	80	68	31	—
158	76	12	2	28	22	7	7	22	22	—
74	61	2	2	13	—	—	—	46	—	—
84	15	10	—	—	—	—	—	—	—	—
925	466	62	45	241	102	60	20	27	10	—
349	143	11	11	234	102	—	—	23	—	—
156	75	45	28	7	—	55	15	4	—	—
5	5	—	—	—	—	5	—	—	—	—
414	243	6	6	—	—	—	—	—	10	—
—	—	—	—	—	—	—	—	—	—	—
2 712	1 486	211	139	233	110	1 341	599	58	6	—
987	624	105	99	84	36	352	195	52	21	—
1 307	773	—	—	112	64	137	382	6	6	—
325	32	74	14	27	—	38	16	—	—	—
93	57	32	26	162	10	5	—	—	—	—
276	25	6	—	162	19	5	—	6	4	—
276	25	6	—	162	19	5	—	6	4	—
—	—	—	—	—	—	—	—	—	—	—
43 578	15 107	444	244	6 406	2 263	436	204	267	147	47
77	77	—	—	26	13	8	—	—	—	—
52	23	6	—	25	11	—	—	—	—	—
1 182	701	53	51	404	229	24	16	45	73	—
3 560	978	43	7	2 720	439	43	10	8	—	—
155	35	13	—	46	28	2	—	—	—	—
661	435	83	44	105	23	11	11	6	13	—
30 483	8 095	5	9	173	92	16	6	62	5	—
301	245	9	—	292	236	—	—	—	—	—
3 767	2 549	79	36	1 088	322	19	6	—	—	—
318	318	67	50	1 111	75	—	—	—	—	—
1 893	1 189	7	7	1 044	702	116	43	132	11	—
181	181	—	—	1 147	33	8	—	46	50	—
950	552	68	40	205	71	189	104	8	—	—

Employed persons 16 years and over—Con.
Managerial and professional specialty occupations—Con.
Professional specialty occupations—Con.
Natural scientists

Physicists and astronomers
Chemists, except biochemists
Atmospheric and space scientists
Geologists and geodesists
Physical scientists, n.e.c.
Agricultural and food scientists
Biological and life scientists
Forestry and conservation scientists
Medical scientists
Health diagnosing occupations
Physicians
Dentists
Veterinarians
Optometrists
Podiatrists
Health diagnosing practitioners, n.e.c.
Health assessment and treating occupations
Registered nurses
Pharmacists
Dietitians
Therapists
Physicians' assistants
Teachers, postsecondary
Teachers, except postsecondary
Teachers, prekindergarten and kindergarten
Teachers, elementary and secondary school
Teachers, special education
Teachers, n.e.c.
Counselors, educational and vocational
Librarians, archivists, and curators
Librarians
Archivists and curators
Social scientists and urban planners
Economists
Psychologists
Sociologists
Social scientists, n.e.c.
Urban planners
Social, recreation, and religious workers
Social workers
Recreation workers
Clergy
Religious workers, n.e.c.
Lawyers and judges
Lawyers
Judges
Writers, artists, entertainers, and athletes
Authors
Technical writers
Designers
Fashion designers and composers
Actors and actresses
Painters, sculptors, craft-artists, and artist printmakers
Photographers
Dancers
Performers, and related workers, n.e.c.
Editors and reporters
Public relations specialists
Announcers
Athletes

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Personal services																			
	Total		Private households		Hotels and motels		Lodging places, except hotels and motels		Laundry, cleaning, and garment services		Beauty shops		Barber shops							
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.																				
Technical, sales, and administrative support occupations	347 920	274 008	16 651	15 434	156 248	115 032	9 721	7 970	91 100	75 955	20 034	18 670	943	784						
Technicians and related support occupations	17 448	12 001	10 430	10 086	1 155	337	199	143	307	87	170	118	55	6						
Health technicians and technicians	10 992	10 568	10 275	10 025	1 102	63	96	92	—	—	—	—	—	—						
Dental hygienists	59	48	24	19	8	8	—	—	—	—	—	—	—	—						
Dental hygienists	6	6	6	6	—	—	—	—	—	—	—	—	—	—						
Health record technicians and technicians	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
Radiologic technicians	119	108	103	103	6	—	5	5	—	—	—	—	—	—						
Licensed practical nurses	10 591	10 342	10 110	9 871	44	44	82	82	—	—	—	—	—	—						
Health technicians and technicians, n.e.c.	10 217	64	32	26	44	11	9	5	—	—	—	—	—	—						
Engineering and related technicians and technicians	1 221	302	31	17	484	78	39	14	105	—	67	32	19	6						
Electrical and electronic technicians	348	51	2	2	166	—	3	—	10	—	—	—	8	—						
Industrial engineering technicians	15	—	—	—	5	—	—	—	10	—	—	—	—	—						
Mechanical engineering technicians	49	15	6	6	12	—	—	—	7	—	—	—	—	—						
Engineering technicians, n.e.c.	523	118	9	9	152	12	14	14	61	—	9	9	5	—						
Drafting occupations	220	83	9	9	139	59	13	—	17	—	20	8	5	—						
Surveying and mapping technicians	66	35	14	—	9	7	—	—	—	—	18	11	6	—						
Science technicians	163	65	19	—	34	8	4	4	13	—	24	24	—	—						
Biological technicians	39	—	12	—	4	—	—	—	—	—	—	—	—	—						
Chemical technicians	56	38	—	—	14	8	4	4	7	—	14	14	—	—						
Science technicians, n.e.c.	68	27	7	—	16	—	—	—	6	—	10	10	—	—						
Technicians, except health, engineering, and science	5 072	1 066	105	44	535	188	60	33	189	87	74	57	36	—						
Airplane pilots and navigators	84	6	6	—	65	—	—	—	6	—	—	—	—	—						
Air traffic controllers	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
Broadcast equipment operators	131	44	—	—	82	34	8	8	—	—	7	—	—	—						
Computer programmers	442	188	—	—	237	78	30	17	108	52	9	9	—	—						
Tool programmers, numerical control	18	—	—	—	—	—	9	—	—	—	—	—	—	—						
Legal assistants	193	176	—	—	39	39	—	—	18	18	—	—	—	—						
Technicians, n.e.c.	4 204	652	99	44	112	37	13	8	57	11	58	48	36	—						
Sales occupations	103 721	80 332	778	406	25 581	20 012	1 783	1 015	57 938	47 413	3 599	2 880	124	51						
Superiors and proprietors, sales occupations	7 080	3 011	50	21	1 356	608	247	93	3 856	1 445	447	381	27	5						
Salaries	5 053	2 259	32	18	1 078	519	160	47	2 578	1 056	318	266	8	5						
Self-employed	2 027	752	18	9	278	89	87	46	1 278	389	129	115	19	—						
Sales representatives, finance and business services	8 390	5 437	11	9	6 994	4 748	1 012	476	31	11	247	122	—	—						
Insurance sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
Real estate sales occupations	868	477	11	9	462	277	132	65	—	—	241	116	—	—						
Securities and financial services sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
Advertising and related sales occupations	204	148	—	—	74	62	20	8	31	11	6	6	—	—						
Sales occupations, other business services	7 318	4 812	—	—	6 458	4 409	860	403	—	—	—	—	—	—						
Sales representatives, commodities, except retail	381	301	—	—	—	—	—	—	8	—	360	301	—	—						
Sales engineers	381	301	—	—	—	—	—	—	8	—	360	301	—	—						
Sales representatives, mining, manufacturing, and wholesaler	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
Sales workers, retail and personal services	87 610	71 417	711	376	17 216	14 649	524	446	54 022	45 944	2 521	2 064	97	46						
Sales workers, commodities	11 092	6 511	387	153	3	—	16	8	8	—	1	1	67	27						
Sales counter clerks	47 039	38 990	121	72	390	257	386	30	45 232	37 744	1 786	1 403	—	—						
Cashiers	26 644	23 572	121	72	16 687	14 286	386	363	8 047	7 602	186	174	30	19						
Street and door-to-door sales workers	2 539	2 221	175	129	108	107	27	25	672	538	419	388	—	—						
News vendors	176	123	21	15	28	17	—	—	58	53	13	5	—	—						
Sales related occupations	260	166	6	—	14	7	—	—	21	13	24	12	—	—						
Demonstrators, promoters and models, sales	81	37	—	—	7	—	—	—	8	—	24	12	—	—						
Auctioneers	9	2	—	—	—	—	—	—	—	—	—	—	—	—						
Sales support occupations, n.e.c.	170	127	6	—	7	—	—	—	13	13	—	—	—	—						
Administrative support occupations, including clerical	226 751	181 675	5 443	4 942	129 512	94 683	7 739	6 812	32 855	28 455	16 265	15 672	784	727						
Supervisors, administrative support occupations	6 891	4 435	96	82	3 924	2 466	183	119	1 634	948	150	123	12	12						
Supervisors, general office	4 314	2 953	56	47	2 338	1 467	181	119	967	712	103	76	4	4						
Supervisors, general equipment operators	1 103	77	5	—	47	—	—	—	26	10	29	7	—	—						
Supervisors, financial records processing	1 357	808	25	25	1 018	584	12	—	159	70	29	7	8	8						
Chief communications operators	285	285	8	8	263	263	—	—	475	7	11	11	—	—						
Supervisors, distribution, scheduling, and adjusting clerks	832	312	2	—	259	111	—	—	330	330	58	48	—	—						
Computer equipment operators	1 767	1 179	2	—	856	557	26	13	514	295	18	8	—	—						
Computer operators	1 614	1 041	—	—	809	520	26	13	474	295	18	8	—	—						
Peripheral equipment operators	153	138	—	—	47	37	—	—	40	35	40	40	—	—						

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States									
	Private households					Personal services				
	Total	Female	Total	Female	Total	Total	Female	Total	Female	Total
Technical, sales, and administrative support occupations—Con.										
Administrative support occupations, including clerical—Con.										
Secretaries, stenographers, and typists—										
Secretaries	35 597	34 850	3 070	2 987	14 786	14 481	2 421	2 382	3 896	3 806
Stenographers	32 559	31 934	2 531	2 472	13 844	13 597	2 280	2 241	3 460	3 400
Typists	173	158	14	14	46	31	—	—	51	51
Information clerks	2 865	2 758	525	501	896	853	141	141	385	355
Interviewers	89 112	67 783	304	270	66 960	46 821	599	467	1 148	1 093
Hotel clerks	346	259	22	16	241	179	5	5	5	5
Transportation ticket and reservation agents	61 008	41 678	—	—	60 936	41 635	72	43	—	—
Receptionists	25 148	23 902	193	179	4 628	4 133	449	388	898	881
Information clerks, n.e.c.	1 840	1 401	84	70	70	371	45	36	240	202
Records processing occupations, except financial	3 513	2 843	49	42	1 070	717	76	76	1 400	1 220
Classified-ad clerks	41	32	—	—	10	10	—	—	21	12
Correspondence clerks	36	36	—	—	11	11	19	19	—	—
Order clerks	2 049	1 573	7	7	435	211	24	24	1 154	992
Personnel clerks, except payroll and timekeeping	295	241	7	7	158	111	13	13	50	50
Library clerks	38	32	5	5	33	27	—	—	—	—
File clerks	973	861	30	30	394	318	14	14	164	155
Records clerks	81	68	—	—	29	29	6	6	11	11
Financial records processing occupations	34 170	27 631	738	668	17 585	12 328	1 909	1 757	7 551	7 003
Bookkeepers, accounting, and auditing clerks	30 285	24 811	733	663	15 177	10 877	1 848	1 704	6 500	6 034
Payroll and timekeeping clerks	2 419	1 758	—	—	1 738	1 106	27	27	428	417
Billing clerks	862	760	—	—	288	204	20	20	431	413
Cost and rate clerks	294	182	5	5	116	49	14	6	162	117
Billing, posting, and calculating machine operators	310	120	—	—	266	92	—	—	30	22
Duplicating, mail, and other office machine operators	335	217	9	9	202	147	5	—	64	36
Duplicating machine operators	38	35	—	—	42	33	5	—	—	—
Mail preparing and paper handling machine operators	39	39	—	—	16	16	—	—	28	28
Office machine operators, n.e.c.	218	123	—	—	144	98	—	—	36	8
Communications equipment operators	9 098	8 337	34	23	8 235	7 594	71	71	257	230
Telephone operators	9 055	8 304	26	15	8 200	7 569	71	71	257	230
Telegraphers	30	20	8	8	12	12	—	—	—	—
Communications equipment operators, n.e.c.	13	13	—	—	13	13	—	—	—	—
Mail and message distributing occupations	1 984	780	84	39	723	261	60	47	459	138
Postal clerks, except mail carriers	—	—	—	—	—	—	—	—	—	—
Mail carriers, postal service	—	—	—	—	—	—	—	—	—	—
Mail clerks, except postal service	1 104	553	31	13	481	223	53	40	311	127
Messengers	880	227	53	26	242	38	7	7	148	76
Material recording, scheduling, and distributing clerks	11 122	7 190	75	42	3 553	1 444	197	105	5 529	4 372
Dispatchers	303	161	6	—	148	68	5	2	91	61
Production coordinators	1 072	860	20	20	191	129	—	—	627	523
Traffic, shipping, and receiving clerks	2 583	1 211	23	8	725	45	17	3	1 443	1 027
Stock and inventory clerks	3 231	1 583	21	9	1 601	529	129	54	1 119	812
Merchandise readers	—	—	—	—	—	—	—	—	—	—
Meat readers	—	—	—	—	—	—	—	—	—	—
Weights, measurers, and checkers	1 525	1 386	—	—	90	78	41	41	712	614
Samplers	41	33	—	—	27	19	5	5	9	9
Expeditors	324	200	—	—	157	92	—	—	124	71
Material recording, scheduling, and distributing clerks, n.e.c.	2 043	1 756	5	5	614	484	—	—	1 404	1 255
Adjusters and investigators	2 282	1 338	44	22	730	399	302	211	662	287
Insurance adjusters, examiners, and investigators	—	—	—	—	—	—	—	—	—	—
Investigator clerks, except insurance	1 175	712	16	10	504	273	12	5	375	227
Eligibility clerk social welfare	45	45	—	—	22	22	—	—	—	—
Bill and account collectors	1 062	581	28	12	204	104	290	206	287	60
Miscellaneous administrative support occupations	30 880	25 092	940	758	10 888	7 468	1 880	1 564	9 741	8 992
General office clerks	26 596	21 671	652	553	9 074	6 099	1 699	1 449	8 985	8 355
Bank tellers	—	—	—	—	—	—	—	—	—	—
Proofreaders	99	89	30	25	12	12	6	6	—	—
Data-entry keyers	1 416	1 330	22	10	522	476	20	18	500	481
Statistical clerks	357	305	39	31	117	98	23	23	92	81
Teachers' aides	86	41	—	—	19	19	—	—	4	4
Administrative support occupations, n.e.c.	2 126	1 415	156	98	1 144	764	132	68	160	75
Beauty shops										
Beauty shops	1 317	1 299	—	—	—	—	—	—	—	—
Barber shops	87	87	—	—	—	—	—	—	—	—
Laundry, cleaning, and garment services										
Laundry, cleaning, and garment services	3 896	3 806	—	—	—	—	—	—	—	—
Lodging places, except hotels and motels										
Lodging places, except hotels and motels	2 421	2 382	—	—	—	—	—	—	—	—
Hotels and motels										
Hotels and motels	14 786	14 481	—	—	—	—	—	—	—	—
Private households										
Private households	3 070	2 987	—	—	—	—	—	—	—	—
Personal services										
Personal services	2 421	2 382	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	United States									
	Personal services									
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.										
Service occupations	1 989 606	1 570 783	643 807	611 131	505 114	312 369	147 784	132 737	21 062	10 247
Private household occupations	589 352	562 886	589 352	562 886	10 608	1 146	1 180	249	323	53
Protective service occupations	13 600	1 968	782	372	522	16	21	2	24	6
Supervisors, protective service occupations	611	61	37	37	522	16	21	2	24	6
Supervisors, firefighting and fire prevention occupations	611	61	37	37	522	16	21	2	24	6
Supervisors, police and detectives	304	32	26	26	29	4	205	13	7	7
Firefighting and fire prevention occupations	264	43	26	26	16	4	205	13	7	7
Firefighting occupations	40	9	—	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—
Guards	12 685	1 855	719	309	10 041	1 126	954	234	292	47
Crossing guards	12	12	—	—	7	7	—	—	—	—
Guards and police, except public service	10 269	952	641	268	8 292	550	653	56	286	47
Protective service occupations, n.e.c.	2 404	891	78	41	1 742	569	301	178	6	—
Food preparation and service occupations	1 386 654	1 005 929	53 673	47 873	494 506	311 223	146 604	132 488	20 739	10 194
Food preparation and service occupations	202 894	101 322	—	—	193 901	95 302	6 744	4 607	1 151	838
Supervisors, food preparation and service occupations	17 779	5 929	—	—	17 398	5 673	245	159	54	30
Bar tenders	20 212	8 114	—	—	19 961	7 991	86	48	31	13
Waiters and waitresses	78 534	57 304	—	—	76 939	56 457	1 046	540	237	161
Cooks, except short order	34 504	15 069	—	—	30 558	11 736	3 590	1 166	166	112
Short-order cooks	1 016	430	—	—	962	413	33	15	13	—
Food counter, fountain and related occupations	2 394	1 308	—	—	1 780	2 136	160	108	42	440
Kitchen workers, food preparation	3 127	2 270	—	—	2 941	2 136	160	108	42	440
Waiters and waitresses, assistants	20 408	3 428	—	—	20 015	3 322	232	61	83	32
Miscellaneous food preparation occupations	24 920	7 470	—	—	23 347	6 831	1 310	503	105	50
Health service occupations	33 170	31 215	27 605	26 337	1 752	1 536	1 304	1 178	59	59
Dental assistants	28	19	—	—	9	9	—	—	—	—
Health aides, except nursing	992	733	341	331	322	230	60	37	—	—
Nursing aides, orderlies, and attendants	32 150	30 463	27 255	25 997	1 421	1 306	1 244	1 141	59	59
Cleaning and building service occupations, except household	312 303	228 690	24 512	20 122	244 812	189 627	10 723	3 855	15 943	6 494
Supervisors, cleaning and building service workers	14 025	9 844	185	140	11 584	8 842	207	76	1 428	513
Maid and housemen	219 339	193 527	14 889	14 331	193 455	171 346	3 663	2 711	2 975	2 064
Janitors and cleaners	77 672	24 883	9 375	5 624	38 858	9 119	6 844	1 068	11 459	3 980
Elevator operators	1 086	391	47	11	890	320	9	—	70	6
Pest control occupations	181	45	16	16	25	—	—	—	11	—
Personal service occupations	838 287	644 702	1 556	1 414	54 041	24 758	127 833	122 848	3 586	2 803
Supervisors, personal service occupations	100 484	6 022	19	9	3 771	954	194	22	82	73
Hairdressers and cosmetologists	523 877	460 282	66	64	1 450	1 150	897	838	234	55
Attendants, amusement and recreation facilities	16 201	6 304	3	3	14 462	5 254	878	368	2 483	2 113
Guides	1 016	469	19	16	356	158	348	120	34	27
Ushers	143	81	7	7	86	46	13	13	—	—
Public transportation attendants	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	12 251	578	—	—	12 058	518	61	28	41	6
Welfare service aides	—	—	—	—	—	—	—	—	—	—
Child care workers, except private household	125 724	123 968	—	—	924	815	118 076	116 724	240	237
Personal service occupations, n.e.c.	47 831	33 577	1 429	1 309	20 931	15 841	7 324	4 712	472	292
Farming, forestry, and fishing occupations	25 840	2 752	16 629	1 074	4 263	270	3 500	832	69	13
Farm operators and managers	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	7	—	—	—	—	—	—	—	—	—
Related agricultural occupations	25 495	2 645	16 495	1 038	4 188	248	3 418	813	67	13
Supervisors, related agricultural occupations	510	365	23	23	55	5	27	4	4	4
Groundskeepers and gardeners, except farm	24 357	2 010	16 148	936	4 018	205	3 359	799	67	13
Animal caretakers, except farm	589	246	324	102	88	24	30	10	—	—
Grocers and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	39	24	—	—	27	14	2	—	—	—
Beauty shops	—	—	—	—	—	—	—	—	—	—
Barber shops	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Personal services											
Total		Private households		Hotels and motels		Lodging places, except hotels and motels		Laundry, cleaning, and garment services		Beauty shops	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
261	97	116	36	32	20	67	19	2	—	7	7
2	2	—	—	—	—	—	—	—	—	—	—
38	15	9	9	13	6	16	—	—	—	—	—
221	80	107	27	36	14	51	19	2	—	7	7
77	10	18	—	27	2	15	—	—	—	2	2
39	8	12	—	7	—	15	—	—	—	—	—
30	8	—	—	—	—	—	—	—	—	2	2
8	2	6	—	2	2	—	—	—	—	—	—
102	39	4 657	588	24 006	2 107	3 299	244	27 154	11 618	792	443
14 392	748	720	54	6 356	187	1 309	49	4 137	201	284	173
13 722	718	5	—	439	11	51	—	105	—	17	4
13 670	718	715	54	5 877	176	1 258	49	4 432	201	267	161
1 792	65	344	35	653	26	119	—	521	3	26	—
1 143	56	229	35	298	18	72	—	441	—	17	—
137	—	24	—	11	—	43	—	57	—	—	—
7	—	7	—	—	—	—	—	—	—	—	—
115	—	23	—	79	—	2	—	6	—	—	—
99	3	61	—	20	—	2	—	9	3	9	—
258	6	—	—	—	—	2	—	2	—	—	—
13	—	—	—	240	6	—	—	6	—	—	—
3 712	127	50	—	1 318	35	128	19	1 971	66	28	—
57	6	6	—	12	—	3	—	15	—	—	—
1 667	36	77	3	431	12	39	—	1 065	14	14	—
368	2	13	—	285	—	26	—	13	—	8	—
26	15	3	3	23	12	13	—	1 037	7	6	—
1 191	7	61	—	74	—	—	—	15	7	—	—
28	7	—	—	13	—	—	—	—	—	—	—
54	5	—	—	36	—	—	—	—	—	—	—
822	3	10	3	733	—	30	—	14	—	—	—
5 620	481	228	7	2 730	105	939	30	846	118	199	161
83	21	18	7	17	9	—	—	3	—	—	—
159	22	—	—	126	22	—	—	9	—	—	—
18	5	—	—	10	5	—	—	—	—	—	—
28	13	6	—	10	—	—	—	—	—	—	—
168	168	—	—	123	13	37	—	—	—	—	—
37	6	—	—	—	—	—	—	37	6	—	—
2 728	175	89	—	1 399	33	694	30	268	75	17	—
2 399	239	115	—	1 045	23	208	—	521	37	182	161
16 458	668	3 357	186	9 643	225	1 531	26	1 156	81	299	122
1 413	147	25	—	933	39	217	—	88	5	131	103
5	—	—	—	5	—	—	—	5	—	—	—
82	—	—	—	62	—	10	—	6	—	4	—
34	—	—	—	28	—	—	—	6	—	—	—
7	—	—	—	7	—	—	—	—	—	—	—
12	—	—	—	—	—	—	—	—	—	—	—
1 273	147	25	—	819	39	207	—	76	5	—	—
15 045	521	3 332	186	8 710	186	1 314	26	1 068	76	127	103
220	—	96	—	80	—	8	—	—	—	168	19
63	4	—	—	57	4	—	—	7	—	6	—
626	22	11	—	154	—	21	—	428	22	6	—
5 219	108	1 426	36	2 764	33	631	10	120	15	92	8
109	10	25	—	45	—	31	—	8	—	—	—
1 609	10	67	2	1 230	—	138	—	96	—	—	—
12	6	6	—	—	—	—	—	—	—	—	—
4 825	276	1 429	127	2 864	109	255	6	153	26	6	—
201	35	28	15	167	20	—	—	—	—	35	—

Employed persons 16 years and over—Con.

Farming, forestry, and fishing occupations—Con.
Forestry and logging occupations—Con.
Supervisors, forestry and logging workers—
Forestry workers, except logging—
Timber cutting and logging occupations—
Fishers, hunters, and trappers—
Captains and other officers, fishing vessels—
Fishers—
Hunters and trappers—
Precision production, craft, and repair occupations—
Mechanics and repairers—
Supervisors, mechanics and repairers—
Mechanics and repairers, except supervisors—
Vehicle and mobile equipment mechanics and repairers—
Bus, truck, and stationery engine mechanics—
Aircraft engine mechanics—
Small engine repairers—
Automobile body and related repairers—
Aircraft mechanics, except engine—
Heavy equipment mechanics—
Farm equipment mechanics—
Industrial machinery repairers—
Machinery maintenance occupations—
Electrical and electronic equipment repairers—
Electronic repairers, communications and industrial equipment—
Data processing equipment repairers—
Household appliance and power tool repairers—
Telephone line installers and repairers—
Telephone installers and repairers—
Miscellaneous electrical and electronic equipment repairers—
Heating, air conditioning, and refrigeration mechanics—
Miscellaneous mechanics and repairers—
Camera, watch, and musical instrument repairers—
Locksmiths and safe repairers—
Office machine repairers—
Mechanical controls and valve repairers—
Elevator installers and repairers—
Millwrights—
Specified mechanics and repairers, n.e.c.—
Not specified mechanics and repairers—
Construction trades—
Supervisors, construction occupations—
Supervisors, brickmasons, stonemasons, and tile setters—
Supervisors, carpenters and related workers—
Supervisors, electricians and power transmission installers—
Supervisors, painters, paperhangers, and plasterers—
Supervisors, plumbers, pipefitters, and steamfitters—
Supervisors, n.e.c.—
Construction trades, except supervisors—
Brickmasons and stonemasons—
Tile setters, hard and soft—
Carpet installers—
Carpenters—
Drywall installers—
Electricians—
Electrical power installers and repairers—
Painters, construction and maintenance—
Paperhangers—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Personal services									
	Total	Female	Total	Female	Private households	Total	Female	Hotels and motels	Total	Female
United States										
Employed persons 16 years and over—Con.										
Precision production, craft, and repair occupations—Con.										
Construction trades—Con.										
Construction trades, except supervisors—Con.										
Plasterers.....	92	7	7	—	—	—	—	—	—	—
Plumbers, pipefitters, and steamfitters.....	1 447	10	100	—	—	—	—	—	—	—
Concrete and masonry finishers.....	17	—	—	—	—	—	—	—	—	—
Carpenters.....	12	—	—	—	—	—	—	—	—	—
Glaziers.....	48	—	6	—	—	—	—	—	—	—
Insulation workers.....	7	—	—	—	—	—	—	—	—	—
Painting, surfacing, and tamping equipment operators.....	45	—	11	—	—	—	—	—	—	—
Roaders.....	13	—	—	—	—	—	—	—	—	—
Sheetmetal duct installers.....	6	—	—	—	—	—	—	—	—	—
Structural metal workers.....	6	—	—	—	—	—	—	—	—	—
Cotters, ear.....	469	27	113	6	—	—	—	—	—	—
Craft occupations, n.e.c.....	27	4	—	—	—	—	—	—	—	—
Supervisors, extractive occupations.....	2	—	—	—	—	—	—	—	—	—
Drillers, oil well.....	—	—	—	—	—	—	—	—	—	—
Explosives workers.....	20	—	—	—	—	—	—	—	—	—
Mining machine operators.....	—	—	—	—	—	—	—	—	—	—
Mining occupations, n.e.c.....	5	2	—	—	—	—	—	—	—	—
Precision production occupations.....	71 320	38 421	580	348	—	—	—	—	—	—
Supervisors, production occupations.....	12 549	5 478	79	32	—	—	—	—	—	—
Precision metalworking occupations.....	784	161	86	22	—	—	—	—	—	—
Tool and die makers.....	5	—	—	—	—	—	—	—	—	—
Precision assemblers, metal.....	18	6	—	—	—	—	—	—	—	—
Machinists.....	480	65	26	—	—	—	—	—	—	—
Boilermakers.....	80	—	30	—	—	—	—	—	—	—
Precision grinders, filers, and tool sharpeners.....	22	12	2	—	—	—	—	—	—	—
Patternmakers and model makers, metal.....	6	6	—	—	—	—	—	—	—	—
Tool-out workers.....	6	—	—	—	—	—	—	—	—	—
Precious stones and metals workers (jewelers).....	78	44	28	22	—	—	—	—	—	—
Engravers, metal.....	18	6	—	—	—	—	—	—	—	—
Sheet metal workers.....	66	16	—	—	—	—	—	—	—	—
Miscellaneous precision metal workers.....	5	—	—	—	—	—	—	—	—	—
Precision woodworking occupations.....	160	28	44	21	—	—	—	—	—	—
Patternmakers and model makers, wood.....	—	—	—	—	—	—	—	—	—	—
Cabinet makers and bench carpenters.....	90	5	8	—	—	—	—	—	—	—
Furniture and wood finishers.....	58	23	29	21	—	—	—	—	—	—
Miscellaneous precision woodworkers.....	12	—	7	—	—	—	—	—	—	—
Precision textile, apparel, and furnishings machine workers.....	51 738	32 276	257	216	—	—	—	—	—	—
Dressmakers.....	26 944	25 488	224	211	—	—	—	—	—	—
Tailors.....	8 783	4 834	37	3	—	—	—	—	—	—
Upholsterers.....	288	77	27	2	—	—	—	—	—	—
Shoe repairers.....	15 256	1 515	—	—	—	—	—	—	—	—
Apparel and fabric patternmakers.....	7	—	—	—	—	—	—	—	—	—
Miscellaneous precision apparel and fabric workers.....	460	362	—	—	—	—	—	—	—	—
Precision workers, assorted materials.....	172	77	18	12	—	—	—	—	—	—
Hand molders and shapers, except jewelers.....	23	—	3	—	—	—	—	—	—	—
Patternmakers, lay-out workers, and others.....	62	48	—	—	—	—	—	—	—	—
Optical goods workers.....	23	—	—	—	—	—	—	—	—	—
Dental laboratory and medical appliance technicians.....	26	12	12	12	—	—	—	—	—	—
Bookbinders.....	—	—	—	—	—	—	—	—	—	—
Electrical and electronic equipment assemblers.....	16	10	6	—	—	—	—	—	—	—
Miscellaneous precision workers, n.e.c.....	22	7	—	—	—	—	—	—	—	—
Precision food production occupations.....	975	231	43	37	—	—	—	—	—	—
Butchers and meat cutters.....	555	39	20	20	—	—	—	—	—	—
Bakers.....	377	168	23	17	—	—	—	—	—	—
Food batchmakers.....	43	24	—	—	—	—	—	—	—	—
Precision inspectors, testers, and related workers.....	93	—	14	—	—	—	—	—	—	—
Inspectors, testers, and graders.....	—	—	18	—	—	—	—	—	—	—
Adjusters and calibrators.....	2	—	12	2	—	—	—	—	—	—
Laundry, cleaning, and garment services										
Lodging places, except hotels and motels										
Hotels and motels										
Beauty shops										
Barber shops										

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	United States													
	Personal services													
	Total		Private households		Hotels and motels		Lodging places, except hotels and motels		Laundry, cleaning, and garment services		Beauty shops		Barber shops	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Precision production, craft, and repair occupations—Con.														
Precision production occupations—Con.														
Plant and system operators	4 847	170	39	8	4 170	116	86	1	456	36	—	—	7	—
Water and sewage treatment plant operators	107	—	—	—	59	—	43	—	5	—	—	—	—	—
Power plant operators	51	27	—	—	33	21	—	—	11	6	—	—	—	—
Stationary engineers	4 580	106	39	8	4 031	76	43	1	431	21	—	—	7	—
Miscellaneous plant and system operators	109	37	—	—	47	19	—	—	9	9	—	—	—	—
Operators, fabricators, and laborers	268 564	146 643	10 579	2 062	31 674	17 361	3 385	1 073	205 893	119 671	1 808	1 106	205	45
Machine operators, assemblers, and inspectors	196 838	132 326	1 274	739	19 498	15 251	1 249	721	165 971	110 382	1 059	799	142	35
Machine operators and tenders, except precision	188 120	125 402	1 052	681	18 598	14 798	971	621	159 433	104 504	952	692	110	29
Metalworking and plastic working machine operators	202	52	19	19	59	2	7	5	75	18	8	8	—	—
Metalworking and plastic working machine operators	33	—	—	—	33	—	—	—	—	—	—	—	—	—
Lathe and turning machine set-up operators	33	—	—	—	33	—	—	—	—	—	—	—	—	—
Lathe and turning machine operators	33	—	—	—	15	—	—	—	10	8	—	—	—	—
Milling and planing machine operators	9	—	—	—	—	—	—	—	9	—	—	—	—	—
Punching and stamping press machine operators	53	31	19	19	9	2	—	—	25	10	—	—	—	—
Rolling machine operators	8	—	—	—	—	—	—	—	—	—	8	8	—	—
Drilling and boring machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Grinding, abrading, buffing, and polishing machine operators	49	5	—	—	2	—	7	5	14	—	—	—	—	—
Forging machine operators	17	—	—	—	—	—	—	—	17	—	—	—	—	—
Numerical control machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous metal, plastic, stone, and glass working machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fabricating machine operators, n e c	39	36	4	4	11	8	—	—	13	13	—	—	—	—
Metal and plastic processing machine operators	1 257	1 125	467	455	94	50	367	367	267	208	5	5	—	—
Molding and casting machine operators	391	271	—	—	94	50	—	—	262	203	—	—	—	—
Metal treating machine operators	860	848	467	455	—	—	366	366	—	—	5	5	—	—
Heat treating equipment operators	1	1	—	—	—	—	1	1	—	—	—	—	—	—
Miscellaneous metal and plastic processing machine operators	5	5	—	—	—	—	—	—	5	5	—	—	—	—
Woodworking machine operators	173	51	57	7	32	7	23	6	61	31	—	—	—	—
Wood lathe, routing, and planing machine operators	6	—	—	—	6	—	—	—	—	—	—	—	—	—
Sawing machine operators	62	37	7	—	9	—	6	6	40	31	—	—	—	—
Shaping and joining machine operators	6	—	—	—	—	—	—	—	6	—	—	—	—	—
Nailing and tacking machine operators	99	14	50	7	17	7	17	—	15	—	—	—	—	—
Miscellaneous woodworking machine operators	99	14	50	7	—	—	—	—	—	—	—	—	—	—
Printing machine operators	957	589	26	6	52	9	13	13	127	121	29	29	—	—
Printing machine operators	488	249	20	6	43	5	13	13	86	80	7	7	—	—
Photoengravers and lithographers	329	200	—	—	5	5	—	—	—	—	—	—	—	—
Typesetters and compositors	79	79	6	6	—	—	—	—	4	4	22	22	—	—
Miscellaneous printing machine operators	61	61	—	—	—	—	—	—	37	37	—	—	—	—
Textile, apparel, and furnishings machine operators	174 350	117 806	143	115	16 401	14 235	279	186	155 860	102 238	666	473	16	12
Winding and twisting machine operators	48	39	—	—	8	8	—	—	34	25	—	—	—	—
Knitting, looping, tapping, and weaving machine operators	9	2	—	—	—	—	—	—	9	2	—	—	—	—
Textile cutting machine operators	17	17	—	—	5	5	—	—	12	12	—	—	—	—
Textile sewing machine operators	10 803	10 465	93	74	514	500	18	18	9 827	9 558	30	30	6	6
Shoe machine operators	182	105	—	—	—	—	—	—	61	58	18	18	—	—
Pressing machine operators	54 088	43 273	41	41	539	417	42	25	53 047	42 513	216	164	4	4
Laundry and dry cleaning machine operators	108 935	63 781	9	8	15 321	13 297	219	143	92 656	49 964	402	261	6	6
Miscellaneous textile machine operators	268	124	9	8	14	8	—	—	214	106	—	—	—	—
Machine operators, assorted materials	11 142	5 743	336	75	1 949	487	282	44	3 030	1 875	244	177	94	17
Cementing and gluing machine operators	68	42	19	12	6	—	7	—	40	40	12	12	—	—
Packaging and filling machine operators	95	68	12	—	—	—	—	—	57	36	—	—	—	—
Extruding and forming machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mixing and blending machine operators	119	24	6	—	6	—	—	—	62	4	10	4	—	—
Separating, filtering, and clarifying machine operators	182	112	—	—	21	11	2	—	112	86	7	7	15	—
Compressing and compacting machine operators	119	64	—	—	4	—	—	—	83	32	23	23	—	—
Painting and paint spraying machine operators	329	17	63	2	202	3	19	—	26	6	—	—	—	—
Roasting and baking machine operators, food	28	6	—	—	22	—	—	—	6	—	—	—	—	—
Washing, cleaning, and pickling machine operators	153	107	—	—	94	83	—	—	45	17	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States														
Personal services														
Total		Private households		Hotels and motels		Lodging places, except hotels and motels		Laundry, cleaning, and garment services		Beauty shops		Barber shops		
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
155	130	—	—	17	17	—	—	—	113	—	—	—	—	
364	25	15	—	147	—	—	—	133	25	—	—	—	—	
37	16	—	—	—	—	6	—	15	—	—	—	—	—	
366	227	11	2	63	46	33	11	102	83	30	30	71	11	
12	11	—	—	9	5	—	—	—	—	—	—	—	—	
4 673	2 863	13	—	43	36	5	5	124	106	5	5	—	—	
1 472	753	42	33	237	75	101	15	792	464	50	37	2	—	
2 970	1 278	155	26	1 081	211	109	13	1 244	855	100	66	6	6	
2 478	1 258	202	58	404	60	224	52	1 105	841	66	66	26	—	
492	24	68	5	154	7	86	—	98	12	—	—	20	—	
57	25	—	—	22	5	—	—	35	20	—	—	—	—	
1 646	1 081	81	25	153	27	135	52	903	763	66	66	6	—	
36	10	5	—	8	4	3	—	14	—	—	—	—	—	
62	31	7	7	7	—	—	—	24	24	—	—	—	—	
98	51	14	13	35	8	—	—	14	14	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
9	9	—	8	9	9	—	—	—	—	—	—	—	—	
78	27	27	—	16	—	—	—	17	8	—	—	—	—	
6 240	5 666	20	—	496	393	54	48	5 433	5 037	41	41	6	6	
5 955	5 449	7	—	457	363	13	13	5 319	4 941	26	26	6	6	
22	17	—	—	5	5	—	—	5	—	7	7	—	—	
10	10	—	—	4	4	—	—	—	—	—	—	—	—	
253	190	13	—	30	21	41	35	103	90	8	8	—	—	
42 304	2 947	2 933	513	6 184	629	580	76	27 792	1 322	286	25	13	—	
40 876	2 797	2 586	502	5 684	594	494	76	27 461	1 223	256	25	13	—	
1 693	27	—	—	150	—	2	—	1 501	21	—	—	—	—	
5 425	440	408	101	821	97	285	45	3 304	149	112	7	7	—	
13 541	972	137	24	623	181	30	40	11 955	638	66	9	—	—	
11 022	454	48	24	170	2	42	—	10 448	402	48	9	—	—	
762	164	38	33	562	96	81	31	42	—	—	—	—	—	
6 029	625	1 923	320	1 387	116	28	—	145	13	12	—	—	—	
2 374	115	32	—	1 953	102	59	—	59	—	18	—	—	—	
30	—	—	—	18	—	5	—	7	—	—	—	—	—	
26	8	—	—	18	—	—	—	—	—	—	—	—	—	
18	—	—	—	18	—	—	—	—	—	—	—	—	—	
8	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
319	32	196	11	82	8	—	—	35	13	6	—	—	—	
230	26	169	5	48	8	—	—	13	13	—	—	—	—	
56	6	27	6	29	—	—	—	—	—	—	—	—	—	
33	—	—	—	5	—	—	—	22	—	6	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1 083	118	143	—	400	27	86	—	296	86	24	—	—	—	
19	2	—	—	5	—	—	—	12	—	—	—	—	—	
185	9	—	—	103	5	11	—	57	4	6	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	
67	2	52	—	9	—	—	—	6	2	—	—	—	—	
30	7	7	—	12	—	—	—	11	7	—	—	—	—	
124	124	18	—	23	—	24	—	7	—	3	—	—	—	
64	—	9	—	17	—	24	—	—	—	—	—	—	—	
295	—	43	—	130	1	21	—	68	—	2	—	—	—	
299	99	12	—	101	21	6	—	135	73	13	—	—	—	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Personal services													
Total		Private households		Hotels and motels		Lodging places, except hotels and motels		Laundry, cleaning, and garment services		Beauty shops		Barber shops	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Cont.													
29 422	11 370	6 372	810	5 992	1 481	1 556	276	12 130	7 967	463	282	50	10
144	49	—	—	57	29	9	2	60	16	—	—	—	—
146	12	44	—	48	4	24	—	24	8	—	—	—	—
264	9	65	—	165	9	8	—	21	—	—	—	—	—
264	9	65	—	165	9	8	—	21	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
1 101	60	343	18	369	16	199	7	75	19	30	—	—	—
1 077	713	—	—	192	126	46	14	789	539	6	6	10	10
2 950	695	293	11	1 009	60	113	5	1 267	503	95	48	—	—
213	7	56	—	82	7	44	—	14	—	7	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
709	302	18	—	285	39	15	—	241	181	—	—	—	—
289	221	10	6	6	6	5	—	251	194	9	9	—	—
1 739	165	209	5	636	8	49	5	761	128	19	19	—	—
336	91	15	9	233	42	28	7	27	15	18	18	—	—
1 534	733	86	12	325	146	25	9	929	526	58	40	—	—
2 660	1 922	83	35	93	60	—	—	2 224	1 928	58	45	19	—
19 190	6 816	5 443	725	3 501	989	1 104	232	6 714	4 413	198	125	21	—

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors; handlers, equipment cleaners, and laborers,
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stevedores
 Stock handlers and bidders
 Machine feeders and offbearers
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States

United States

Personal services—Con.

Entertainment and recreation services

	Funeral service and crematories		Shoe repair shops		Dressmaking shops		Miscellaneous personal services		Total		Theaters and motion pictures		Bowling alleys, billiard and pool parlors	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	74 007	19 998	19 352	3 558	24 869	23 104	138 827	83 955	1 007 070	407 324	331 860	122 294	82 576	36 085
Monarchical and professional specialty occupations.....	43 100	4 891	647	184	466	306	64 871	30 620	392 232	134 326	185 064	53 415	13 519	4 007
Executive, administrative, and managerial occupations.....	41 880	4 115	620	175	279	162	17 219	9 421	149 870	48 601	47 757	16 396	11 784	3 037
Legislators, chief executives, and general administrators; public administration.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators and officials; public administration.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Federal.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
State.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Local.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators, protective services.....	—	—	—	—	—	—	32	26	38	—	—	—	7	—
Financial managers.....	80	32	—	—	—	—	69	250	1 732	585	755	212	65	20
Personnel and labor relations managers.....	117	31	5	5	13	6	404	250	2 180	821	813	336	189	51
Purchasing managers.....	—	—	—	—	—	—	36	24	302	90	185	51	—	—
Managers, advertising and public relations.....	33	—	15	1	15	—	1 596	897	3 148	911	1 626	442	104	22
Administrators, education and related fields.....	—	—	—	—	—	—	50	36	209	86	48	20	6	—
Managers, medicine and health.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, properties and real estate.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Postmasters and mail superintendents.....	17	—	—	—	—	—	30	—	386	55	168	8	17	8
Federal directors.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers and administrators, n.e.c.....	37 599	3 050	28	5	196	137	62	17	27	13	6	—	—	—
Salaried.....	3 725	878	536	134	137	28	13 434	7 362	125 853	39 536	35 309	11 757	11 067	2 788
Self-employed.....	3 231	707	286	76	133	109	10 908	5 997	111 035	35 485	31 423	10 779	8 514	2 238
Management related occupations.....	494	171	250	58	133	109	2 526	1 365	14 818	4 051	3 486	978	2 553	550
Accountants and auditors.....	309	124	36	30	55	19	1 357	740	15 995	6 504	8 847	3 570	329	148
Underwriters.....	212	110	12	6	33	13	387	191	5 434	2 862	2 260	1 089	96	36
Other financial officers.....	—	—	—	—	—	—	—	—	4	—	—	—	—	—
Management analysts.....	16	—	—	—	7	2	97	47	349	143	206	71	—	8
Personnel, training, and labor relations specialists.....	7	—	10	10	—	—	291	223	326	96	214	52	8	—
Business development and sales promotion agents.....	60	14	7	7	11	—	429	203	2 564	959	743	329	129	49
Purchasing agents and buyers, except farm products.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Business and promotion agents, n.e.c.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Construction inspectors.....	6	—	7	7	4	4	87	27	1 330	414	574	123	25	6
Inspectors and compliance officers, except construction.....	—	—	—	—	—	—	41	28	5 637	2 138	4 792	1 903	69	47
Management related occupations, n.e.c.....	6	—	—	—	—	—	—	—	6	—	—	—	—	—
Professional specialty occupations.....	—	—	—	—	—	—	14	14	180	55	15	—	—	—
Engineers, architects, and surveyors.....	—	—	—	—	—	—	—	—	130	28	43	3	2	2
Architects.....	1 220	776	27	9	187	144	47 652	21 199	242 362	85 725	137 307	37 019	1 735	970
Engineers.....	—	—	3	3	14	—	103	14	2 908	140	1 981	63	41	—
Aerospace engineers.....	—	—	—	—	—	—	—	—	164	28	37	—	—	—
Metallurgical and materials engineers.....	—	—	3	3	—	—	103	14	2 719	106	1 938	63	41	—
Mining engineers.....	—	—	—	—	—	—	6	—	16	—	—	—	—	—
Petroleum engineers.....	—	—	—	—	—	—	12	—	7	—	7	—	—	—
Chemical engineers.....	—	—	—	—	—	—	5	—	7	—	—	—	—	—
Nuclear engineers.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Civil engineers.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Agricultural engineers.....	—	—	—	—	—	—	—	—	129	4	60	4	—	—
Electrical and electronic engineers.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial engineers.....	—	—	—	—	—	—	6	—	1 562	49	1 427	49	—	—
Mechanical engineers.....	—	—	3	3	14	8	14	8	166	10	89	10	10	—
Marine engineers and naval architects.....	—	—	—	—	—	—	6	—	261	—	90	—	20	—
Engineers, n.e.c.....	—	—	—	—	—	—	—	—	10	—	—	—	—	—
Surveyors and mapping scientists.....	—	—	—	—	14	—	54	6	561	43	265	—	11	—
Mathematical and computer scientists.....	—	—	—	—	—	—	25	—	6	—	6	—	—	—
Computer systems analysts and scientists.....	—	—	—	—	—	—	64	14	537	163	337	85	5	—
Operations and systems researchers and analysts.....	—	—	—	—	—	—	31	5	235	79	191	46	5	—
Actuaries.....	—	—	—	—	—	—	20	5	175	53	111	20	—	—
Statisticians.....	—	—	—	—	—	—	4	9	5	—	5	—	—	—
Mathematical scientists.....	—	—	—	—	—	—	9	—	62	31	30	19	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Personal services—Con						Entertainment and recreation services														
	Funeral service and crematories			Shoe repair shops			Dressmaking shops			Miscellaneous personal services			Total			Theaters and motion pictures			Bowling alleys, billiard and pool parlors		
	Total	Female		Total	Female		Total	Female		Total	Female		Total	Female		Total	Female		Total	Female	
Managerial and professional specialty occupations—Con																					
Professional specialty occupations—Con																					
Natural scientists	13	—		—	—		13	—		71	20		537	147		61	12		12	6	
Physicists and astronomers	—	—		—	—		—	—		8	6		28	22		5	5		—	—	
Chemists, except biochemists	—	—		—	—		13	—		—	—		55	11		40	7		—	—	
Atmospheric and space scientists	—	—		—	—		—	—		—	—		—	—		—	—		—	—	
Geologists and geodesists	—	—		—	—		—	—		50	6		20	8		6	—		6	6	
Physical scientists, n.e.c.	—	—		—	—		—	—		—	—		7	—		—	—		—	—	
Agricultural and food scientists	—	—		—	—		—	—		—	—		—	—		—	—		—	—	
Biological and life scientists	6	—		—	—		—	—		10	5		123	36		—	—		—	—	
Forestry and conservation scientists	—	—		—	—		—	—		—	—		137	29		—	—		6	—	
Medical scientists	7	—		—	—		—	—		3	3		6	—		—	—		—	—	
Health diagnosing occupations	—	—		—	—		—	—		98	33		673	93		212	36		55	—	
Physicians	—	—		—	—		—	—		35	7		292	57		26	15		55	—	
Dentists	—	—		—	—		—	—		12	4		86	5		135	—		—	—	
Veterinarians	—	—		—	—		—	—		—	—		254	14		33	14		—	—	
Optometrists	—	—		—	—		—	—		—	—		11	—		11	—		—	—	
Podiatrists	—	—		—	—		—	—		—	—		17	—		7	—		—	—	
Health diagnosing practitioners, n.e.c.	—	—		—	—		—	—		51	22		17	—		—	—		—	—	
Health assessment and treating occupations	75	42		6	6		6	6		1 547	1 395		1 204	895		250	137		20	20	
Registered nurses	42	42		6	6		6	6		813	791		546	458		169	105		11	11	
Pharmacists	—	—		—	—		—	—		6	—		6	—		—	—		—	—	
Dietitians	—	—		—	—		—	—		341	335		192	172		15	9		—	—	
Therapists	7	—		—	—		7	7		387	269		431	265		43	23		9	9	
Physicians' assistants	26	—		—	—		—	—		—	—		29	—		23	—		—	—	
Teachers, postsecondary	9	—		—	—		—	—		119	91		344	174		48	16		—	—	
Teachers, except postsecondary	27	21		59	59		59	59		9 495	7 261		51 814	31 379		1 863	1 123		637	475	
Teachers, prekindergarten and kindergarten	—	—		—	—		—	—		6	6		221	212		12	6		16	16	
Teachers, elementary and secondary school	—	—		—	—		—	—		—	—		—	—		—	—		—	—	
Teachers, special education	—	—		—	—		—	—		10	10		327	253		—	—		—	—	
Teachers, n.e.c.	27	21		59	59		59	59		9 479	7 245		51 266	30 914		1 851	1 117		621	459	
Counselors, educational and vocational	8	—		—	—		—	—		102	85		285	137		98	36		10	—	
Librarians, archivists, and curators	1	1		7	7		7	7		22	15		880	440		294	170		—	—	
Librarians	1	1		7	7		7	7		7	—		378	235		254	151		—	—	
Archivists and curators	—	—		—	—		—	—		15	15		502	205		40	19		—	—	
Social scientists and urban planners	2	—		18	12		18	12		487	277		821	309		364	141		20	6	
Economists	—	—		18	12		18	12		45	18		548	177		247	100		13	6	
Psychologists	2	—		—	—		—	—		43	32		44	34		57	12		—	—	
Sociologists	—	—		—	—		—	—		—	—		152	80		55	22		—	—	
Social scientists, n.e.c.	—	—		—	—		—	—		398	227		13	6		—	—		—	—	
Urban planners	—	—		—	—		—	—		1	—		13	—		—	—		7	—	
Social, recreation, and religious workers	153	67		—	—		—	—		704	538		6 428	3 372		718	188		72	44	
Social workers	118	61		—	—		—	—		276	212		993	617		77	47		28	14	
Recreation workers	6	6		—	—		—	—		363	309		4 782	2 615		45	24		45	30	
Clergy	29	—		—	—		—	—		52	12		540	54		523	54		—	—	
Religious workers, n.e.c.	—	—		—	—		—	—		13	5		113	86		73	63		—	—	
Lawyers and judges	62	2		—	—		—	—		19	—		554	177		442	157		12	—	
Lower-level occupations	62	2		—	—		—	—		19	—		554	177		442	157		12	—	
Judges	—	—		—	—		—	—		—	—		—	—		—	—		—	—	
Writers, artists, entertainers, and athletes	870	635		70	60		70	60		34 821	11 456		175 377	48 299		130 639	34 855		850	419	
Authors	—	—		—	—		—	—		24	24		1 659	340		1 573	296		9	—	
Technical writers	—	—		—	—		—	—		36	21		747	242		664	206		—	—	
Designers	43	33		47	45		47	45		433	233		4 709	1 672		3 847	1 356		30	23	
Musicians and composers	556	476		—	—		—	—		186	56		72 538	14 225		68 935	13 253		121	27	
Actors and directors	23	—		—	—		—	—		51	322		29 092	9 612		28 616	9 456		7	—	
Painters, sculptors, craft-artists, and artist printmakers	16	16		6	6		6	6		415	322		2 516	865		1 871	664		15	—	
Photographers	49	18		—	—		—	—		30 165	7 974		2 887	475		2 443	247		—	—	
Dancers	—	—		—	—		—	—		—	—		8 063	5 239		5 239	3 725		—	—	
Artists, performers, and related workers, n.e.c.	—	—		8	—		8	—		2 558	2 170		19 841	6 223		9 175	2 782		53	12	
Editors and reporters	—	—		—	—		—	—		123	85		5 710	1 737		5 234	1 495		13	6	
Public relations specialists	—	—		9	9		9	9		327	240		4 519	2 390		2 030	1 130		265	182	
Announcers	183	92		—	—		—	—		26	—		1 733	178		692	108		48	—	
Athletes	—	—		—	—		—	—		480	332		21 363	4 664		321	137		289	169	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Personal services—Con.				Entertainment and recreation services			
	Funeral service and crematories		Shoe repair shops		Dressmaking shops		Miscellaneous personal services	
	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations	16 677	11 203	1 859	1 501	274	183	34 393	27 276
Technicians and related support occupations	3 449	182	4	4	5	—	1 674	1 038
Health technicians and technicians	88	18	—	—	—	—	426	365
Clinical laboratory technicians and technicians	11	5	—	—	—	—	16	16
Dental hygienists	—	—	—	—	—	—	—	—
Health record technicians and technicians	—	—	—	—	—	—	—	—
Radiologic technicians	5	—	—	—	—	—	—	—
Licensed practical nurses	—	—	—	—	—	—	350	340
Health technicians and technicians, n.e.c.	72	13	—	—	—	—	60	9
Engineering and related technicians and technicians	—	—	—	—	—	—	476	155
Electrical and electronic technicians	—	—	—	—	—	—	159	49
Industrial engineering technicians	—	—	—	—	—	—	45	12
Mechanical engineering technicians	—	—	—	—	—	—	6	—
Engineering technicians, n.e.c.	—	—	—	—	—	—	270	88
Drafting occupations	—	—	—	—	—	—	22	7
Surveying and mapping technicians	—	—	—	—	—	—	19	11
Science technicians	3	3	—	—	5	—	61	26
Biological technicians	—	—	—	—	—	—	23	—
Chemical technicians	3	3	—	—	5	—	9	—
Science technicians, n.e.c.	—	—	—	—	—	—	29	17
Technicians, except health, engineering, and science	3 358	161	4	4	—	—	711	492
Airplane pilots and navigators	—	—	—	—	—	—	7	—
Air traffic controllers	—	—	—	—	—	—	16	—
Broadcast equipment operators	18	2	—	—	—	—	37	24
Computer programmers	21	8	—	—	—	—	9	—
Tool programmers, numerical control	—	—	—	—	—	—	136	119
Legal assistants	—	—	—	—	—	—	506	349
Technicians, n.e.c.	3 319	151	4	4	—	—	—	—
Sales occupations	681	213	1 369	1 043	101	76	11 767	7 223
Supervisors and proprietors, sales occupations	28	14	101	34	8	8	960	402
Sales workers, retail and personal services	17	5	55	19	—	—	807	339
Self-employed	11	9	46	15	8	8	153	63
Sales representatives, finance and business services	18	10	—	—	—	—	77	61
Insurance sales occupations	—	—	—	—	—	—	8	—
Real estate sales occupations	14	10	—	—	—	—	69	61
Securities and financial services sales occupations	—	—	—	—	—	—	—	—
Advertising and related sales occupations	4	—	—	—	—	—	—	—
Sales occupations, other business services	—	—	—	—	—	—	12	—
Sales representatives, commodities, except retail	—	—	—	—	—	—	—	—
Sales engineers	—	—	—	—	—	—	12	—
Sales representatives, mining, manufacturing, and wholesale	—	—	—	—	—	—	—	—
Sales workers, retail and personal services	635	189	1 252	1 000	86	68	10 546	6 655
Sales workers, commodities	518	102	14	—	80	62	8 206	4 749
Sales counter clerks	36	17	818	610	—	—	275	131
Cashiers	11	—	420	390	—	—	643	470
Street and door-to-door sales workers	70	70	—	—	6	6	1 366	1 252
News vendors	—	—	—	—	—	—	56	33
Sales related occupations	—	—	16	9	7	—	172	125
Demonstrators, promoters and models, sales	—	—	7	7	—	—	35	11
Auctioneers	—	—	9	2	—	—	—	—
Sales support occupations, n.e.c.	—	—	—	—	7	—	137	114
Administrative support occupations, including clerical	12 547	10 808	486	454	168	107	20 952	19 015
Supervisors, administrative support occupations	136	103	6	6	8	—	732	576
Supervisors, general office	110	77	6	6	8	—	541	445
Supervisors, computer equipment operators	26	26	—	—	—	—	106	92
Supervisors, financial records processing	—	—	—	—	—	—	—	—
Chief communications operators	—	—	—	—	—	—	85	39
Supervisors, distribution, scheduling, and adjusting clerks	—	—	—	—	—	—	232	175
Computer equipment operators	74	49	—	—	7	7	208	151
Computer operators	72	47	—	—	7	—	24	24
Peripheral equipment operators	2	2	—	—	—	—	—	—
Theaters and motion pictures	70 070	49 677	—	—	—	—	—	—
Bowling alleys, billiard and pool parlors	10 465	7 573	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

United States

	Personal services—Con.				Entertainment and recreation services					
	Shoe repair shops		Dressmaking shops		Miscellaneous personal services		Theaters and motion pictures		Bowling alleys, billiard and pool parlors	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Funeral service and crematories										
Technical, sales, and administrative support occupations—Con.										
Administrative support occupations, including dental—Con.										
Secretaries	5 576	5 414	56	56	38	38	4 350	4 300	29 179	28 270
Stenographers	5 382	5 230	49	49	32	32	3 783	3 733	26 103	25 384
Typists	171	161	7	7	6	6	554	554	2 850	2 680
Information clerks	2 951	2 348	26	26	2	2	4 562	4 437	10 162	8 764
Interviewers	12	12					46	32	139	126
Ticket clerks										
Transportation ticket and reservation agents							21	21	1 144	795
Receptionists	2 343	2 007	19	19			4 256	4 164	8 112	7 320
Information clerks, n.e.c.	596	329	7	7	2	2	239	220	727	523
Records processing occupations, except financial							729	643	1 918	1 229
Classified-ad clerks	86	75	14	14			10	10	73	31
Correspondence clerks							6	6	36	17
Order clerks	36	25	14	14			323	277	768	434
Personnel clerks, except payroll and timekeeping	23	23					33	33	173	144
Jurory clerks									14	67
File clerks	27	27					322	295	599	450
Records clerks							35	22	143	67
Financial records processing occupations									4	4
Bookkeepers, accounting, and auditing clerks	1 829	1 607	137	137	33	24	2 561	2 422	18 050	16 024
Payroll and timekeeping clerks	1 800	1 578	131	131	33	24	2 299	2 176	16 303	14 689
Billing clerks	18	18	6	6			145	129	1 074	790
Cost and rate clerks	11	11					106	106	407	381
Billing, posting, and calculating machine operators							11	11	154	81
Duplicating, mail, and other office machine operators									112	14
Duplicating machine operators							41	25	411	158
Mail preparing and paper handling machine operators							2	2	111	40
Office machine operators, n.e.c.							6	6	27	8
Communications equipment operators							24	17	273	110
Telephone operators	129	85	2	2	2	2	310	292	1 663	1 508
Telegraphers	85	85					310	292	1 632	1 489
Communications equipment operators, n.e.c.									20	8
Mail and message distributing occupations									11	11
Postal carriers, except mail carriers										
Mail carriers, postal service	118	15	13	6	6		406	182	1 622	349
Mail carriers, except postal service										
Messengers							188	122	628	192
Material recording, scheduling, and distributing clerks							218	160	994	157
Dispatchers	19	13	6	6	6					
Production coordinators	99	2	13				1 411	1 010	6 556	3 028
Traffic, shipping, and receiving clerks	143	72	19	6	20		226	61	265	6
Stock and inventory clerks	40	27					139	145	2 629	1 527
Meter readers	43	22	8		5		318	115	1 075	241
Weighters, measurers, and checkers	18				15		212	79	1 540	450
Samplers	40	21								
Expeditors							666	642	567	372
Material recording, scheduling, and distributing clerks, n.e.c.							3	3	50	35
Adjusters and investigators	2	2					35	29	429	111
Insurance adjusters, examiners, and investigators							8			
Investigators and adjusters, except insurance							415	337	1 459	590
Eligibility clerks, social welfare							218	171	939	433
Bill and account collectors	18	6	7	7	6		5	5	486	260
Miscellaneous administrative support occupations	12	12					192	161	15	43
General office clerks	51	35			7		5 203	4 616	60	22
Bank tellers	1 424	987	208	196	34	34	4 133	3 666	4 781	3 365
Proofreaders	1 351	929	208	196	23	18	51	46	2 987	2 209
Data-entry keyers							38	24	6	6
Statistical clerks							286	286	362	362
Teachers' aides	22	22					246	240	283	269
Administrative support occupations, n.e.c.	28	28					22	35	66	66
	23	8					465	356	4 005	446

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Personal services—Con.				Entertainment and recreation services			
	Funeral service and crematories		Shoe repair shops		Dressmaking shops		Miscellaneous personal services	
	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	8 995	3 687	1 084	193	77	52	26 622	20 211
Private household occupations	171	—	—	—	—	—	494	123
Protective service occupations	7	—	—	—	—	—	—	—
Supervisors, protective service occupations	—	—	—	—	—	—	—	—
Supervisors, fire fighting and fire prevention occupations	—	—	—	—	—	—	—	—
Supervisors, police and detectives	—	—	—	—	—	—	—	—
Supervisors, guards	—	—	—	—	—	—	—	—
Fire fighting and fire prevention occupations	—	—	—	—	—	—	—	—
Fire inspection and fire prevention occupations	—	—	—	—	—	—	—	—
Firefighting occupations	—	—	—	—	—	—	—	—
Police and detectives	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—
Guards	164	—	—	—	—	—	—	—
Crossing guards	—	—	—	—	—	—	—	—
Guards and police, except public service	159	—	—	—	—	—	—	—
Protective service occupations, n.e.c.	5	—	—	—	—	—	—	—
Service occupations, except protective and household	8 824	3 687	1 084	193	77	52	26 128	20 088
Food preparation and service occupations	96	46	55	24	8	8	772	412
Supervisors, food preparation and service occupations	30	22	6	6	—	—	52	45
Bar tenders	—	—	—	—	—	—	91	45
Waiters and waitresses	18	9	10	2	—	—	240	120
Cooks, except short order	20	3	11	2	—	—	114	57
Short-order cooks	—	—	—	—	—	—	—	—
Food counter, fountain and related occupations	6	6	6	2	—	—	63	48
Kitchen workers, food preparation	—	—	—	—	—	—	12	12
Waiters and waitresses, assistants	16	—	14	14	—	—	56	12
Miscellaneous food preparation occupations	6	6	—	—	8	8	144	72
Health service occupations	146	47	8	8	—	—	2 164	1 993
Dental assistants	—	—	—	—	—	—	5	5
Health aides, except nursing	92	11	—	—	—	—	159	112
Nursing aides, orderlies, and attendants	54	36	8	21	—	—	2 000	1 876
Cleaning and building service occupations, except household	4 173	1 977	107	8	15	8	3 053	1 301
Supervisors, cleaning and building service workers	36	11	8	—	—	—	64	13
Maid and housemen	1 926	1 282	27	14	10	8	980	570
Janitors and cleaners	2 211	684	72	7	5	—	1 978	701
Elevator operators	—	—	—	—	—	—	26	12
Pest control occupations	—	—	—	—	—	—	5	5
Personal service occupations	4 409	1 617	914	140	54	36	20 139	16 382
Supervisors, personal service occupations	23	13	6	—	—	—	1 801	992
Barbers	121	30	143	55	30	12	102	127
Hairdressers and cosmetologists	432	366	56	42	—	—	4 138	3 973
Attendants, amusement and recreation facilities	16	—	—	—	—	—	284	228
Guides	—	—	—	—	—	—	220	137
Ushers	15	—	—	—	—	—	22	15
Public transportation attendants	—	—	—	—	—	—	—	—
Baggage porters and bellhops	13	8	—	—	—	—	78	18
Welfare service aides	—	—	—	—	—	—	—	—
Child care workers, except private household	84	82	—	—	—	—	2 643	2 589
Personal service occupations, n.e.c.	3 705	1 118	709	43	24	24	10 851	8 416
Farming, forestry, and fishing occupations	607	37	—	—	—	—	224	120
Farm operators and managers	—	—	—	—	—	—	—	—
Farm occupations, except managerial	—	—	—	—	—	—	—	—
Related agricultural occupations	607	37	—	—	—	—	181	99
Supervisors, related agricultural occupations	—	—	—	—	—	—	—	—
Groundskeepers and gardeners, except farm	—	—	—	—	—	—	—	—
Animal caretakers, except farm	607	37	—	—	—	—	79	3
Animal caretakers, except farm	—	—	—	—	—	—	102	96
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	—	—	—	—	—	—
Entertainment and recreation services	—	—	—	—	—	—	—	—
Theaters and motion pictures	—	—	—	—	—	—	—	—
Bowling alleys, billiard and pool parlors	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Personal services—Con						Entertainment and recreation services					
	Funeral service and crematories			Shoe repair shops			Dressmaking shops			Miscellaneous personal services		
	Total	Female		Total	Female		Total	Female		Total	Female	
Employed persons 16 years and over—Con.												
Farming, forestry, and fishing occupations	—	—	—	—	—	—	—	—	—	—	—	—
Forestry and logging occupations	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, forestry and logging workers	—	—	—	—	—	—	—	—	—	—	—	—
Forestry workers, except logging	—	—	—	—	—	—	—	—	—	—	—	—
Timber cutting and logging occupations	—	—	—	—	—	—	—	—	—	—	—	—
Fishers, hunters, and trappers	—	—	—	—	—	—	—	—	—	—	—	—
Captains and other officers, fishing vessels	—	—	—	—	—	—	—	—	—	—	—	—
Fishers	—	—	—	—	—	—	—	—	—	—	—	—
Hunters and trappers	—	—	—	—	—	—	—	—	—	—	—	—
Precision production, craft, and repair occupations	504	20	15 426	1 560	23 821	2 388	2 388	850	43 864	10 186	3 195	10 437
Mechanics and repairers	181	1	207	17	30	71	37	41	25 522	2 631	178	9 818
Supervisors, mechanics and repairers	—	—	—	—	—	—	—	—	—	—	—	—
Mechanics and repairers, except supervisors	181	1	207	17	30	71	37	41	25 522	2 631	178	9 818
Vehicular and mobile equipment mechanics and repairers	101	1	179	17	30	67	37	36	24 035	2 507	178	9 749
Automobile mechanics	85	1	—	—	6	11	11	2	3 037	371	6	216
Bus, truck, and stationery engine mechanics	—	—	—	—	—	9	2	1	796	119	6	168
Aircraft engine mechanics	—	—	—	—	—	2	2	—	124	3	—	19
Small engine mechanics	—	—	—	—	—	—	—	—	212	—	—	—
Automobile body and related repairers	—	—	—	—	—	—	—	—	516	6	—	9
Aircraft mechanics, except engine	—	—	—	—	—	—	—	—	59	10	—	5
Heavy equipment mechanics	14	—	—	—	—	—	—	—	17	17	—	—
Farm equipment mechanics	2	—	—	—	—	—	—	—	263	2	2	10
Industrial machinery repairers	—	—	—	—	—	—	—	—	50	6	—	5
Machinery maintenance occupations	5	—	16	—	7	189	189	—	3 884	274	—	1 511
Electrical and electronic equipment repairers	—	—	—	—	—	21	21	—	130	5	—	47
Electronic repairers, communications and industrial equipment	7	—	2	—	—	32	32	7	1 772	156	—	26
Data processing equipment repairers	—	—	2	—	—	21	21	2	1 047	76	—	—
Household appliance and power tool repairers	—	—	—	—	—	—	—	—	69	5	5	7
Telephone line installers and repairers	—	—	—	—	—	—	—	—	34	10	—	—
Telephone installers and repairers	—	—	—	—	—	—	—	—	3	3	3	—
Miscellaneous electrical and electronic equipment repairers	7	—	—	—	—	—	—	—	65	14	—	13
Heating, air conditioning, and refrigeration mechanics	—	—	—	—	—	11	11	5	554	394	60	6
Miscellaneous mechanics and repairers	17	—	—	—	—	18	18	—	160	64	—	7
Camera, watch, and musical instrument repairers	51	—	161	17	7	406	406	27	15 422	753	34	7 942
Locksmiths and safe repairers	—	—	—	—	—	45	45	5	310	132	6	7
Office machine repairers	—	—	—	—	—	8	8	—	58	8	—	—
Mechanical controls and valve repairers	6	—	—	—	—	6	6	—	40	9	—	26
Elevator installers and repairers	—	—	—	—	—	—	—	—	18	—	—	5
Millwrights	—	—	—	—	—	—	—	—	31	—	—	—
Specified mechanics and repairers, n.e.c.	6	—	71	13	7	148	148	8	11 962	301	15	31
Not specified mechanics and repairers	39	—	90	4	—	199	199	14	2 910	298	13	663
Construction trades	160	8	5	—	17	265	265	20	11 098	4 745	352	238
Supervisors, construction occupations	6	—	—	—	—	13	13	—	1 134	459	7	27
Supervisors, brickmasons, stonemasons, and tile setters	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, carpenters and related workers	—	—	—	—	—	—	—	—	146	65	—	—
Supervisors, electricians and power transmission installers	—	—	—	—	—	—	—	—	110	68	—	—
Supervisors, painters, paperhangers, and plasterers	—	—	—	—	—	—	—	—	7	—	—	—
Supervisors, plumbers, pipefitters, and steamfitters	—	—	—	—	—	—	—	—	29	29	—	—
Supervisors, n.e.c.	6	—	—	—	—	13	13	—	842	40	7	27
Construction trades, except supervisors	154	8	5	—	17	252	252	20	9 964	4 286	345	211
Brickmasons and stonemasons	24	—	—	—	—	5	5	—	97	—	—	—
Tile setters, hard and soft	—	—	—	—	—	—	—	—	—	—	—	—
Carpet installers	6	—	—	—	—	—	—	—	7	—	—	7
Carpenters	—	—	—	—	—	—	—	—	—	—	—	—
Drywall installers	52	—	—	—	—	115	115	6	4 823	25	182	66
Electricians	—	—	—	—	—	—	—	—	—	—	—	—
Electrical power installers and repairers	11	—	—	—	—	67	67	8	2 061	1 065	77	65
Painters, construction and maintenance	—	—	—	—	—	—	—	—	—	—	—	—
Paperhangers	57	8	5	—	—	27	27	—	1 966	597	79	17

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.										
Precision production occupations—Con.										
	4	48	9		37		711	13	199	7
Plant and system operators	—	—	—	—	—	—	25	—	—	—
Water and sewage treatment plant operators	—	—	—	—	—	—	6	—	—	—
Power plant operators	—	—	—	—	32	—	642	6	194	7
Stationary engineers	—	—	9	—	5	—	38	7	5	—
Miscellaneous plant and system operators	—	48	—	—	—	—	—	—	—	—
Operators, fabricators, and laborers	4	336	120	231	10 399	4 878	48 927	7 466	26 480	1 442
Machine operators, assemblers, and inspectors	155	222	90	219	7 049	4 093	22 377	3 747	17 666	339
Machine operators and tenders, except precision	89	177	72	196	6 542	3 808	20 639	3 272	16 837	306
Machine operators and plastic working machine operators	8	—	—	—	26	—	167	54	25	19
Metalworking and plastic working machine operators	—	—	—	—	—	—	—	—	—	—
Lathe and turning machine set-up operators	—	—	—	—	—	—	—	—	—	—
Lathe and turning machine operators	8	—	—	—	—	—	8	—	—	—
Milling and planing machine operators	—	—	—	—	—	—	16	16	—	16
Punching and stamping machine operators	—	—	—	—	—	—	12	12	6	—
Rolling machine operators	—	—	—	—	—	—	—	—	—	—
Drilling and boring machine operators	—	—	—	—	—	—	7	—	7	—
Grinding, abrading, buffing, and polishing machine operators	—	—	—	—	—	—	—	—	—	—
Forging machine operators	—	—	—	—	26	—	117	26	5	3
Numerical control machine operators	—	—	—	—	—	—	7	—	7	—
Miscellaneous metal, plastic, stone, and glass working machine operators	—	—	—	—	—	—	—	—	—	—
Fabricating machine operators, n.e.c.	—	—	—	—	—	—	—	—	—	—
Metal and plastic processing machine operators	—	2	2	—	9	9	22	—	—	—
Molding and casting machine operators	—	—	—	—	57	40	77	21	48	10
Metal plating machine operators	—	—	—	—	35	18	44	11	31	5
Heat treating equipment operators	—	—	—	—	22	22	27	10	17	10
Miscellaneous metal and plastic processing machine operators	—	—	—	—	—	—	—	—	—	—
Woodworking machine operators	—	—	—	—	—	—	6	—	—	—
Wood lathe, routing, and planing machine operators	—	—	—	—	—	—	96	15	51	3
Sawing machine operators	—	—	—	—	—	—	—	—	—	—
Shaping and joining machine operators	—	—	—	—	—	—	9	9	3	—
Nailing and tacking machine operators	—	—	—	—	—	—	6	6	3	—
Miscellaneous woodworking machine operators	—	—	—	—	—	—	81	—	48	—
Printing machine operators	15	—	—	8	687	395	274	56	176	27
Printing machine operators	15	—	—	1	310	147	191	37	110	18
Photoengravers and lithographers	—	—	—	7	310	181	33	4	29	—
Typesetters and compositors	—	—	—	7	47	47	43	15	37	9
Miscellaneous printing machine operators	—	—	—	—	20	20	746	536	121	99
Textile apparel and furnishings machine operators	32	148	53	136	649	355	746	—	—	—
Knitting and twisting machine operators	—	—	—	—	6	6	2	—	—	—
Knitting, looping, fusing, and weaving machine operators	—	—	—	—	—	—	—	—	—	—
Textile cutting machine operators	—	—	—	—	—	—	11	2	—	—
Textile sewing machine operators	—	20	20	136	159	128	176	165	95	88
Shoe machine operators	—	93	19	—	175	103	28	10	11	5
Pressing machine operators	8	16	—	—	286	96	493	359	6	6
Laundering and dry cleaning machine operators	24	19	14	—	31	10	32	—	9	—
Miscellaneous textile machine operators	—	—	—	—	—	—	—	—	—	—
Machine operators, assorted materials	34	—	17	52	5 094	3 009	19 257	2 590	16 416	277
Cementing and gluing machine operators	—	27	—	2	2	2	52	17	17	—
Extruding and forming machine operators	—	—	—	—	8	8	—	—	—	—
Packaging and filling machine operators	—	—	—	—	—	—	5	—	—	—
Mixing and blending machine operators	—	—	—	—	35	14	12	10	2	2
Separating, filtering, and clarifying machine operators	—	—	—	—	25	15	26	9	9	—
Compressing and compacting machine operators	—	—	—	—	9	9	37	30	17	10
Painting and point spraying machine operators	6	—	—	—	13	—	177	18	63	8
Roasting and baking machine operators, food	—	—	—	—	—	—	—	—	—	—
Washing, cleaning, and pickling machine operators	—	7	7	—	—	—	9	6	—	6

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

Employed persons 16 years and over--Con.

Folding machine operators

Transportation and material moving occupations	
Motor vehicle operators	
Supervisors, motor vehicle operators	
Truck drivers, heavy	
Truck drivers, light	
Driver-sales workers	
Bus drivers	
Taxicab drivers and chauffeurs	
Parking lot attendants	
Motor transportation occupations, n.e.c.	
Rail transportation occupations	
Railroad conductors and yardmasters	
Locomotive operating occupations	
Railroad brake, signal, and switch operators	
Rail vehicle operators, n.e.c.	
Water transportation occupations	
Ship captains and mates, except fishing boats	
Sailors and deckhands	
Marine engineers	
Bridge, lock, and lighthouse tenders	
Material moving occupations	
Supervisors, material moving equipment operators	
Operating engineers	
Longshore equipment operators	
Hoist and trolley operators	
Crane and tower operators	
Excavating and loading machine operators	
Grader, dozer, and scraper operators	
Industrial truck and tractor equipment operators	
Miscellaneous material moving equipment operators	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Personal services—Con.				Entertainment and recreation services									
Funeral service and crematories		Shoe repair shops		Dressmaking shops		Miscellaneous personal services		Total		Theaters and motion pictures		Bowling alleys, billiard and pool parlors	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
1 391	40	79	30	12	—	1 377	474	16 048	2 184	6 210	684	887	174
—	—	—	—	—	—	18	2	121	18	62	5	17	7
—	—	—	—	—	—	6	—	117	—	22	—	43	—
—	—	—	—	—	—	5	—	111	—	20	—	—	—
—	—	—	—	—	—	5	—	111	—	20	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
47	—	9	—	—	—	29	—	713	55	214	13	27	6
3	—	5	—	—	—	26	18	324	53	60	10	38	—
24	—	11	11	3	—	135	57	5 663	474	4 313	303	60	7
2	—	—	—	—	—	8	—	107	10	6	—	2	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	—	11	11	—	—	77	51	418	62	73	11	22	—
—	—	—	—	—	—	8	6	72	23	12	—	4	—
20	—	—	—	3	—	42	—	5 066	379	4 222	292	32	7
9	—	—	—	—	—	6	—	149	14	14	—	13	—
96	—	—	—	—	—	35	—	320	30	48	15	34	—
—	—	—	—	—	—	183	124	298	150	123	54	6	6
1 212	40	54	19	9	—	934	273	8 232	1 390	1 334	284	649	148

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers,
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stevedores
 Stock handlers and baggers
 Machine feeders and oilers
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Professional and related services													
	Entertainment and recreation services—Con.				Health services				Offices of optometrists					
	Miscellaneous entertainment and recreation services		Total		Offices of physicians		Offices of dentists		Offices of chiropractors		Total			
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female		
Employed persons 16 years and over	592 634	248 995	19 811 819	13 144 812	7 250 465	5 524 588	736 425	498 283	397 332	277 328	35 727	17 974	47 858	25 970
Managerial and professional specialty occupations	193 649	76 904	9 861 509	5 579 385	2 525 713	1 650 177	342 503	121 387	132 617	22 939	20 146	3 139	22 847	3 126
Executive, administrative, and managerial occupations	90 329	29 168	1 560 060	677 290	347 094	199 481	31 221	28 049	14 817	14 212	930	849	1 401	1 201
Legislators, chief executives, and general administrators; public administration	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators and officials, public administration	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators, protective services	31	—	448	35	148	30	—	—	—	—	—	—	—	—
Financial managers	912	353	24 566	8 707	10 745	4 290	711	546	147	131	9	7	26	7
Personal and labor relations managers	1 178	434	25 812	12 736	10 677	5 844	697	635	189	163	33	33	33	20
Purchasing managers	117	39	5 412	1 646	2 559	950	154	98	10	10	—	—	9	—
Managers, marketing, advertising, and public relations	1 418	447	8 956	3 117	1 630	630	154	98	49	43	—	—	13	—
Administrators, education and related fields	155	66	371 677	141 110	2 691	1 526	67	37	14	14	5	—	5	—
Managers, medicine and health	—	—	106 256	54 010	106 256	54 010	1 896	1 297	767	727	57	31	57	50
Managers, properties and real estate	201	39	4 341	1 143	1 351	444	115	76	—	—	—	—	—	—
Postmasters and mail superintendents	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Federal directors	21	13	444	85	130	26	—	—	6	6	—	—	—	—
Managers and administrators, n.e.c.	79 477	24 991	572 449	294 728	149 175	97 295	25 658	23 844	13 162	12 721	772	726	1 172	1 049
Self-employed	70 898	22 468	552 349	283 243	143 998	93 561	24 481	22 796	12 347	11 961	640	597	1 003	887
Management related occupations	6 819	2 786	439 699	159 973	61 732	34 436	1 923	1 516	473	397	54	52	117	67
Accountants and auditors	3 078	1 537	305 197	93 713	22 892	12 262	1 157	905	261	214	44	44	72	37
Other financial officers	9	—	305 197	145	96	59	26	120	38	20	—	—	—	—
Management analysts	143	72	27 539	15 063	3 899	2 285	146	45	39	34	—	—	—	—
Personnel, training, and labor relations specialists	134	36	11 562	4 025	2 839	1 765	87	45	39	34	—	—	—	—
Purchasing agents and buyers, farm products	1 692	581	50 153	30 119	14 963	10 640	293	275	102	96	8	8	38	23
Buyers, wholesale and retail trade except farm products	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Purchasing agents and buyers, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Business and promotion agents	731	285	21 269	10 833	10 946	5 959	141	103	20	20	—	—	—	—
Construction inspectors	776	188	6 086	1 279	62	44	—	—	7	7	—	—	7	7
Inspectors and compliance officers, except construction	165	55	10 375	2 772	5 419	1 127	56	51	—	—	2	—	—	—
Management related occupations, n.e.c.	85	23	3 465	1 878	476	281	17	17	6	6	—	—	—	—
Professional specialty occupations	103 320	47 736	8 301 449	4 902 095	2 178 619	1 450 696	311 282	93 338	117 800	8 727	19 216	2 290	21 446	1 925
Engineers, architects, and surveyors	886	77	268 676	12 517	7 848	976	329	86	116	27	17	—	271	7
Architects	127	28	69 587	4 869	381	52	—	—	—	—	—	—	79	7
Engineers	740	43	179 892	7 082	7 424	906	329	86	116	27	12	—	182	7
Aerospace engineers	16	—	2 886	131	14	2	—	—	—	—	—	—	—	—
Metallurgical and materials engineers	—	—	1 457	234	383	147	183	46	61	27	—	—	—	—
Mining engineers	—	—	855	32	—	—	—	—	—	—	—	—	—	—
Petroleum engineers	—	—	694	38	29	11	2	22	—	—	—	—	10	—
Chemical engineers	7	—	3 305	285	136	37	54	22	6	6	—	—	8	—
Nuclear engineers	—	—	1 292	52	94	11	—	—	—	—	—	—	26	—
Civil engineers	69	—	48 702	1 491	763	23	18	—	13	13	—	—	38	—
Agricultural engineers	—	—	1 046	240	20	—	16	—	—	—	—	—	6	—
Electrical and electronic engineers	135	—	25 532	788	972	15	6	—	13	13	—	—	21	—
Industrial engineers	67	—	5 363	786	1 043	229	6	—	—	—	—	—	73	—
Mechanical engineers	151	—	16 948	396	1 069	16	—	—	21	21	12	—	10	—
Marine engineers and naval architects	10	—	1 481	63	69	—	13	—	—	—	—	—	—	—
Engineers, n.e.c.	285	43	70 331	2 546	2 832	415	37	16	2	2	—	—	—	—
Surveyors and mapping scientists	19	6	19 197	566	43	18	—	—	—	—	—	—	—	—
Mathematical and computer scientists	195	78	30 724	10 391	5 348	2 422	186	59	45	13	—	—	8	—
Computer systems analysts and scientists	99	33	15 241	4 324	2 435	835	108	12	21	—	—	—	—	—
Operations and systems researchers and analysts	64	33	6 678	2 360	1 305	579	45	21	45	13	—	—	—	—
Actuaries	—	—	2 179	585	—	—	—	—	—	—	—	—	—	—
Statisticians	32	12	5 393	2 905	1 559	997	33	26	—	—	—	—	8	—
Mathematical scientists, n.e.c.	—	—	1 233	217	49	11	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction For meaning of symbols, see Introduction For definitions of terms, see appendix A]

United States	Professional and related services																	
	Entertainment and recreation services—Con						Health services											
	Miscellaneous entertainment and recreation services			Total			Offices of physicians			Offices of dentists			Offices of chiropractors			Offices of optometrists		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Employed persons 16 years and over—Con.																		
Managerial and professional specialty occupations—Con.																		
Professional specialty occupations—Con.																		
Natural scientists	464	129	72 530	21 089	10 353	1 532	24 968	10 353	410	1 532	410	62	20	22	14	17	14	14
Physicists and astronomers	23	17	7 869	473	90	54	1 138	90	—	54	—	—	—	—	—	—	—	—
Chemists, except biochemists	15	4	11 510	3 174	1 110	58	3 315	1 110	14	58	14	—	—	20	14	10	14	14
Atmospheric and space scientists	—	—	1 905	390	78	—	139	78	—	—	—	—	—	—	—	—	—	—
Geologists and geodesists	8	2	8 146	940	202	19	269	202	5	19	5	13	5	—	—	—	—	—
Physical scientists, n.e.c.	7	—	2 144	398	85	—	350	85	—	—	—	—	—	—	—	—	—	—
Agricultural and food scientists	151	41	5 175	1 179	316	6	316	316	—	6	—	—	—	—	—	—	—	—
Biological and life scientists	123	36	21 098	8 512	4 156	186	8 373	4 156	125	186	125	5	10	2	—	—	—	—
Forestry and conservation scientists	131	29	989	247	31	22	179	31	4	22	4	—	—	—	—	—	—	—
Medical scientists	6	—	13 694	5 776	4 457	19	889	4 457	262	19	262	—	—	—	—	—	—	—
Health diagnosing occupations	406	57	594 360	67 841	64 016	229 534	577 163	64 016	18 596	229 534	18 596	6 234	6 234	18 532	1 703	20 539	1 703	1 410
Physicians	211	42	419 762	54 959	405 676	17 961	405 676	51 819	17 961	405 676	17 961	6 033	6 033	18 532	1 703	20 539	1 703	1 410
Dentists	66	—	122 536	7 750	7 556	2	121 206	7 556	291	2 118	291	112 179	112 179	74	36	286	36	14
Veterinarians	119	5	2 341	556	1 225	105	1 225	1 225	24	105	24	254	254	41	14	20	14	6
Optometrists	—	—	21 586	1 605	1 574	31	21 345	1 574	71	31	71	—	—	21	—	20	—	1 382
Podiatrists	—	—	21 363	1 542	1 513	441	20 531	2 339	203	864	203	69	—	10	1 653	72	10	8
Health diagnosing practitioners, n.e.c.	10	10	70 772	2 429	7 283	441	20 531	2 339	203	864	203	69	—	10	1 653	72	10	8
Health assessment and treating occupations	934	738	1 490 143	1 358 203	1 254 659	75 928	1 379 243	1 254 659	71 906	75 928	71 906	2 762	2 762	607	553	385	607	553
Registered nurses	366	342	1 194 941	1 146 935	1 087 831	66 483	1 134 662	1 087 831	65 463	1 134 662	65 463	2 062	2 062	169	159	211	169	206
Pharmacists	6	—	37 317	14 264	36 483	161	36 483	13 870	161	338	161	147	—	—	—	—	—	—
Dietitians	177	163	58 538	53 571	51 127	46 673	51 127	46 673	212	212	212	15	15	5	5	11	5	11
Therapists	379	233	181 069	133 153	139 312	96 375	139 312	96 375	3 558	3 558	3 558	304	304	401	358	111	401	99
Physicians' assistants	6	—	18 278	10 280	17 659	9 910	17 659	9 910	5 337	5 337	5 337	228	228	32	31	52	32	37
Teachers, postsecondary	296	158	618 210	224 249	1 663	782	1 663	782	21	27	21	20	20	—	—	6	—	6
Teachers, except postsecondary	49 314	29 781	3 523 197	2 512 958	19 855	15 365	19 855	15 365	134	134	134	18	18	—	—	6	—	6
Teachers, prekindergarten and kindergarten	193	190	175 276	169 281	15 798	7	169 281	15 798	7	7	7	—	—	—	—	—	—	—
Teachers, elementary and secondary school	—	—	3 134 907	2 201 211	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, special education	327	253	25 324	18 099	3 854	2 994	3 854	2 994	6	6	6	—	—	—	—	—	—	—
Teachers, n.e.c.	48 794	29 338	187 690	124 367	15 151	11 573	15 151	11 573	121	121	121	18	18	—	—	6	—	6
Counselors, educational and vocational	177	101	170 440	94 716	7 827	4 244	94 716	4 244	55	72	55	—	—	—	—	9	—	6
Librarians, archivists, and curators	586	270	176 834	144 078	3 162	2 721	3 162	2 721	24	29	24	—	—	—	—	5	—	5
Librarians	124	84	166 895	138 547	3 020	2 606	3 020	2 606	17	22	17	—	—	—	—	5	—	5
Archivists and curators	462	186	9 939	5 531	142	115	142	115	7	7	7	—	—	—	—	—	—	—
Social scientists and urban planners	437	162	95 408	44 477	47 237	22 378	47 237	22 378	1 604	1 604	854	50	37	—	—	31	—	25
Economists	288	71	6 177	2 006	2 006	2 006	2 006	2 006	23	23	8	—	—	—	—	2	—	25
Psychologists	37	27	80 780	38 977	45 982	21 762	45 982	21 762	1 541	1 541	829	50	37	—	—	29	—	25
Sociologists	99	58	2 252	2 316	1 168	4	1 168	284	4	36	13	—	—	—	—	—	—	—
Social scientists, n.e.c.	6	—	5 733	2 314	592	22	592	22	—	—	—	—	—	—	—	—	—	—
Urban planners	—	—	1 466	371	1 095	27	1 095	27	—	—	—	—	—	—	—	—	—	—
Social, recreation, and religious workers	5 637	3 140	631 288	250 371	88 527	63 999	88 527	63 999	1 071	1 071	852	20	4	7	7	74	7	53
Social workers	688	556	283 300	190 339	68 655	49 610	68 655	49 610	1 033	1 033	842	13	4	7	7	72	7	51
Recreation workers	4 692	2 561	277 414	17 319	12 234	1 431	12 234	1 431	5	5	—	—	—	—	—	2	—	2
Clergy	17	—	277 414	15 683	5 801	1 424	5 801	1 424	14	14	—	7	—	—	—	—	—	—
Religious workers, n.e.c.	40	23	47 893	27 530	1 837	1 444	1 837	1 444	19	19	5	—	—	—	—	—	—	—
Lawyers and judges	100	20	385 898	44 933	2 470	341	2 470	341	38	341	38	49	—	8	5	5	8	5
Lawyers	100	20	385 898	44 933	2 470	341	2 470	341	38	341	38	49	—	8	5	5	8	5
Judges	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	43 888	13 025	244 132	115 872	13 308	8 324	13 308	8 324	323	495	323	184	74	23	13	90	23	55
Authors	77	44	33 734	15 274	119	90	119	90	17	17	17	—	—	—	—	—	—	—
Technical writers	83	36	8 942	4 177	1 030	686	1 030	686	53	109	53	16	16	—	—	—	—	—
Designers	293	293	28 077	7 534	375	2	28 077	375	2	2	2	105	19	—	—	30	—	23
Musicians and composers	3 482	156	2 669	880	183	108	183	108	28	28	6	—	—	—	—	21	—	6
Actors and directors	156	156	2 669	880	183	108	183	108	28	28	6	—	—	—	—	21	—	6
Painters, sculptors, craft-artists, and artist printmakers	630	201	54 062	27 446	1 132	691	1 132	691	57	64	57	18	13	4	—	16	4	13
Photographers	444	228	7 178	2 078	1 694	553	1 694	553	19	52	19	—	—	6	6	—	6	—
Dancers	2 824	1 951	318	179	20	20	20	20	—	—	—	—	—	—	—	—	—	—
Artists, performers, and related workers, n.e.c.	10 613	3 429	6 804	3 130	601	357	601	357	13	29	13	6	6	—	—	6	—	—
Editors and reporters	463	236	21 677	13 907	5 521	1 711	5 521	1 711	98	98	84	6	6	7	7	9	7	5
Public relations specialists	2 224	1 078	29 642	17 000	5 834	4 096	5 834	4 096	72	72	55	33	14	6	—	8	6	8
Announcers	993	70	812	231	118	68	118	68	—	—	—	—	—	—	—	—	—	—
Athletes	20 754	4 358	14 956	3 705	195	63	195	63	14	18	14	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

United States

[illegible]

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Entertainment and recreation services—Con		Professional and related services									
			Health services									
	Total	Female	Total		Offices of physicians		Offices of dentists		Offices of chiropractors		Offices of optometrists	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Miscellaneous entertainment and recreation services												
16 913	16 390	1 600 752	1 578 287	433 357	103 823	103 322	16 173	16 081	2 392	2 377	3 564	3 560
14 892	14 464	1 396 109	1 379 747	369 423	96 811	96 407	15 182	15 118	2 183	2 168	3 380	3 380
1 892	1 804	157 861	157 861	57 965	6 282	6 195	940	912	187	187	171	167
7 975	6 965	305 975	286 048	205 802	63 262	62 830	33 764	33 602	4 372	4 345	7 142	7 070
83	73	12 253	10 023	5 597	234	221	77	72	3			
740	559	4 762	2 846	1 236	95	90	24	24				
6 658	5 973	273 122	261 541	196 531	62 446	62 032	33 501	33 356	4 354	4 330	7 104	7 032
494	360	11 838	11 638	2 638	12 480	12 088	1 329	1 287	209	15	30	30
969	697	268 460	225 796	84 577	77 020						213	203
17	12	1 386	1 263	36								
341	228	9 305	6 543	4 126	22	22	5	5				
128	98	9 112	8 155	4 562	87	87	34	34				
39	39	133 610	108 722	1 423	91	91	106	106	25	25		
309	243	58 291	48 070	25 985	4 302	4 084	688	646	35	35	157	147
101	57	56 213	52 771	45 480	7 225	7 142	491	491	149	149	33	33
11 442	10 227	331 680	299 751	116 435	25 708	25 133	8 463	8 350	770	762	1 185	1 148
10 368	9 403	277 603	250 688	84 290	22 475	21 977	8 148	8 041	696	688	1 153	1 128
710	515	19 675	18 301	7 737	151	146	43	43			18	16
191	185	27 176	25 882	22 759	3 010	2 938	272	266	74	74	14	14
75	47	5 292	3 255	960	13	13						
98	77	1 934	1 625	689	59	59						
250	106	10 168	7 011	2 401	50	22	12	12				
9	9	5 412	3 770	521	2	2	5	5				
19	19	9 737	528	1 177	10							
222	97	4 019	2 713	1 703	38	20	7	7				
Office machine operators, n.e.c.												
1 354	1 227	48 919	45 598	30 094	29 211	27 699	27	27				
1 323	1 208	48 656	45 425	30 001	29 131	27 694	27	27				
20	8	145	103	56	5	5						
11	11	118	70	37								
724	140	42 542	20 335	13 410	422	197	139	95	27	20	38	38
Postal clerks, except mail carriers												
277	69	26 795	13 862	6 405								
Mail carriers, except postal service												
447	71	15 747	6 473	3 631	175	100	80	55	14	14	26	26
Messengers												
2 712	1 053	92 826	50 646	53 137	32 802	433	169	156	5	5	42	32
Dispatchers	220	3 319	1 882	1 095	42	36	17	17				
Production coordinators	531	276	13 153	8 563	4 004	3 081	67	67				
Stock, shipping, and receiving clerks	424	91	10 228	2 958	1 317	113	26	26	5	5	10	6
Bill and inventory clerks	1 091	321	55 638	29 452	37 929	22 990	188	135	5	5	8	8
Meter readers												
Weights, measurers, and checkers	222	131	2 005	1 460	347	273	19	12				
Samplers	3	3	261	201	98	92	19	19				
Expeditors	141	95	2 890	2 049	1 176	1 023	17					
Material recording, scheduling, and distributing clerks, n.e.c.												
80	75	5 332	4 081	3 994	49	41	17	10				
Adjusters and investigators	844	275	33 573	25 619	11 735	9 898	170	163	17	17	61	28
Insurance adjusters, examiners, and investigators												
Investigators and adjusters, except insurance	406	161	13 565	9 310	5 503	510	108	108	9	9	43	21
Eligibility clerks, social welfare	15	15	11 229	9 267	662	38	19	19				
Bill and account collectors	423	99	8 779	7 042	4 833	599	43	36	8	8	18	7
Miscellaneous administrative support occupations	11 909	8 121	716 704	626 705	201 956	186 118	3 870	3 727	647	607	1 079	1 051
General office clerks	8 649	5 910	339 239	293 538	130 439	120 672	3 239	3 116	512	482	844	822
Bank tellers												
Proofreaders	14	9	2 745	1 950	72	57						
Data-entry keyers	502	395	43 524	40 429	15 052	14 193	764	704			11	11
Statistical clerks	258	179	27 937	23 904	12 593	11 351	548	523	9	9	43	37
Teachers' aides	46	35	202 031	188 001	1 457	1 273	84	76			5	5
Administrative support occupations, n.e.c.	2 440	1 593	101 228	78 883	42 343	38 572	4 966	4 833	126	116	176	176

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Entertainment and recreation services—Con.				Professional and related services							
					Total				Offices of physicians			
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States												
Health services												
Offices of optometrists												
Offices of chiropractors												
Offices of dentists												
Offices of physicians												
Total												
208 715	89 916	4 076 219	3 007 851	1 837 801	98 069	91 129	144 968	141 420	6 162	5 852	2 849	2 581
18 450	4 537	104 566	20 589	2 740	151	8	7	7	—	—	2	—
424	13	4 271	333	97	—	—	—	—	—	—	—	—
42	—	196	6	—	—	—	—	—	—	—	—	—
382	13	4 075	327	91	—	—	—	—	—	—	—	—
425	84	1 663	96	18	—	—	—	—	—	—	—	—
348	72	631	40	13	—	—	—	—	—	—	—	—
77	12	1 032	36	5	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
17 801	4 440	98 632	20 160	2 645	151	8	—	—	—	—	2	—
40	24	1 516	953	8	—	—	—	—	—	—	—	—
10 630	963	85 000	12 699	2 584	151	8	—	—	—	—	2	—
7 131	3 453	12 116	6 508	53	—	—	—	—	—	—	—	—
190 065	85 379	3 971 653	2 987 262	1 835 041	97 918	91 121	144 961	141 413	6 162	5 852	2 847	2 581
83 272	46 645	783 041	638 053	193 336	300	235	166	148	6	6	41	36
4 953	1 660	46 803	37 367	14 914	12	12	8	—	—	—	—	—
12 343	4 366	11 772	5 199	358	2	2	19	16	6	6	—	—
30 755	24 926	33 454	29 232	9 392	40	33	21	21	—	—	16	11
14 506	6 948	335 094	300 367	82 379	154	121	21	21	—	—	—	—
364	291	1 988	1 339	508	2	2	—	—	—	—	—	—
2 419	1 920	5 342	4 676	1 690	14	7	—	—	—	—	—	—
2 085	1 609	22 006	19 003	9 371	—	—	—	—	—	—	—	—
6 320	3 585	62 528	52 667	21 638	7	7	22	22	—	—	15	10
9 327	3 340	263 854	208 203	66 133	69	58	96	89	—	—	10	10
777	603	1 618 356	1 430 116	388 202	84 785	81 601	141 190	138 747	5 856	5 637	2 469	2 325
83	83	149 925	147 076	145 125	2 570	2 531	136 742	134 568	179	179	175	169
180	137	251 850	216 440	209 416	53 613	52 068	2 399	2 366	5 024	4 900	1 722	1 722
514	383	1 216 581	1 066 600	933 661	28 602	27 002	2 049	2 049	653	653	487	434
39 344	8 486	1 011 439	397 300	205 797	11 759	8 295	3 461	2 380	270	192	320	203
1 623	262	52 661	14 766	11 471	172	97	9	9	7	7	—	—
6 067	3 301	256 983	198 626	163 592	3 074	2 869	513	467	37	26	78	53
31 442	4 860	698 024	182 542	29 827	8 457	5 279	2 799	1 790	226	159	242	150
174	63	2 694	1 164	763	47	41	140	114	—	—	—	—
38	—	1 077	202	144	9	9	—	—	—	—	—	—
66 672	29 645	558 817	501 793	47 706	1 074	990	144	138	30	17	17	17
2 221	634	2 690	1 828	859	—	—	—	—	—	—	—	—
156	107	5 880	5 468	103	39	37	26	26	—	—	—	—
44 077	16 799	8 953	4 736	3 986	18	11	—	—	—	—	—	—
3 831	1 957	10 351	6 747	2 906	8	8	5	—	—	—	—	—
2 887	1 239	2 064	1 231	90	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
244	—	228	109	49	15	15	—	—	—	—	2	2
—	—	45 497	41 156	6 334	67	61	11	11	—	—	6	6
4 112	3 363	426 021	395 636	15 419	346	315	67	67	8	8	2	2
9 036	5 502	55 735	44 662	16 804	581	543	35	35	22	17	7	7
43 073	4 028	54 223	9 695	953	320	35	114	3	20	20	12	6
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
21	—	555	315	41	6	—	—	—	—	—	—	—
41 599	3 923	51 208	8 592	847	314	35	114	3	20	20	12	6
3 635	53	555	40	—	—	—	—	—	—	—	—	—
31 411	1 646	41 864	4 784	343	314	35	114	3	20	20	6	—
6 544	2 224	8 679	3 744	490	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
9	—	110	24	14	—	—	—	—	—	—	6	6

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Entertainment and recreation services—Con		Professional and related services									
			Total		Total		Offices of physicians		Offices of dentists		Offices of chiropractors	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States												
Employed persons 16 years and over—Con.												
Farming, forestry, and fishing occupations—												
Forestry and logging occupations—												
Supervisors, forestry and logging workers—	41	5	267	86	34	18	—	—	—	—	—	—
Forestry workers, except logging—	17	—	67	27	2	—	—	—	—	—	—	—
Timber cutting and logging occupations—	24	5	196	57	21	11	—	—	—	—	—	—
Fishers, hunters, and trappers—	1	100	2 193	702	56	47	—	—	—	—	—	—
Captains and other officers, fishing vessels—	919	68	58	27	20	20	—	—	—	—	—	—
Fishers—	487	32	2 064	647	10	7	—	—	—	—	—	—
Hunters and trappers—	6	—	71	28	26	20	—	—	—	—	—	—
Precision production, craft, and repair occupations—												
Mechanics and repairers—	23 241	1 746	331 522	50 511	143 515	28 417	2 087	1 107	8 809	4 099	95	16
Supervisors, mechanics and repairers—	12 633	270	83 830	5 069	24 837	1 286	204	54	51	21	39	19
Mechanics and repairers, except supervisors—	521	6	5 902	4 521	1 977	181	25	12	9	7	5	5
Vehicle and mobile equipment mechanics and repairers—	12 112	264	77 928	4 521	22 860	1 105	179	42	42	14	39	14
Automobile mechanics—	2 650	21	18 982	449	1 437	90	60	9	9	3	39	9
Automobile mechanics—	1 509	19	9 633	336	1 114	66	58	6	3	3	1	1
Bus, truck, and stationary engine mechanics—	102	—	7 084	17	59	—	—	—	—	—	—	—
Aircraft engine mechanics—	212	—	702	23	33	—	—	—	—	—	—	—
Small engine repairers—	501	—	377	7	47	7	2	—	—	—	—	—
Automobile body and related repairers—	44	—	474	12	46	11	—	—	—	—	—	—
Aircraft mechanics, except engine—	—	—	67	37	16	—	—	—	—	—	—	—
Heavy equipment mechanics—	243	2	511	11	114	—	—	—	—	—	—	—
Farm equipment mechanics—	39	—	134	6	8	6	—	—	—	—	—	—
Industrial machinery repairers—	2 099	48	14 073	337	7 152	112	48	—	13	—	—	—
Machinery maintenance occupations—	78	—	458	20	135	—	—	—	6	—	—	—
Electrical and electronic equipment repairers—	469	18	11 127	1 888	1 830	350	2	2	—	—	—	—
Electronic repairers, communications and industrial equipment—	196	6	8 556	1 502	1 300	258	2	—	—	—	—	—
Data processing equipment repairers—	57	5	840	132	104	18	—	—	—	—	—	—
Household appliance and power tool repairers—	24	—	761	55	163	21	—	—	—	—	—	—
Telephone line installers and repairers—	—	—	60	16	—	—	—	—	—	—	—	—
Telephone installers and repairers—	38	—	524	131	190	37	—	—	6	—	—	—
Miscellaneous electrical and electronic equipment repairers—	154	7	386	52	73	16	—	—	—	—	—	—
Heating, air conditioning, and refrigeration mechanics—	89	—	9 495	166	3 904	118	6	—	—	—	—	—
Miscellaneous mechanics and repairers—	6 727	177	23 793	1 661	8 402	438	63	34	14	5	—	—
Camera, watch, and musical instrument repairers—	171	—	75	30	3	—	—	—	—	—	—	—
Opticians and safe repairers—	50	—	2 348	84	650	3	—	—	—	—	—	—
Off-machine repairers—	5	—	728	84	110	46	26	—	—	—	—	—
Machine repairers—	13	—	153	13	28	—	—	—	—	—	—	—
Elevator installers and repairers—	31	18	581	41	278	25	—	—	—	—	—	—
Millwrights—	57	—	772	30	114	21	7	—	—	—	—	—
Specified mechanics and repairers, n.e.c.—	4 451	132	9 366	953	3 620	176	30	8	5	5	—	—
Not specified mechanics and repairers—	1 949	27	9 099	314	3 529	135	—	—	9	—	—	—
Construction trades—												
Supervisors, construction occupations—	6 115	271	116 846	3 626	39 008	915	275	47	91	16	21	16
Supervisors: brickmasons, stonemasons, and tile setters—	648	32	11 581	516	3 776	201	31	7	—	—	—	—
Supervisors: carpenters and related workers—	81	4	1 129	7	332	—	—	—	—	—	—	—
Supervisors: electricians and power transmission installers—	42	—	1 548	45	454	6	—	—	—	—	—	—
Supervisors: painters, paperhangers, and plasterers—	7	—	273	14	83	14	—	—	—	—	—	—
Supervisors: plumbers, pipefitters, and steamfitters—	—	—	418	13	215	13	—	—	—	—	—	—
Supervisors, n.e.c.—	518	28	8 157	437	2 682	168	31	7	—	—	—	—
Construction trades, except supervisors—	5 467	239	105 265	3 110	35 232	714	244	40	91	16	21	16
Brickmasons and stonemasons—	97	—	2 313	101	537	15	3	—	—	—	—	—
Tile setters, hard and soft—	—	—	168	12	54	—	—	—	—	—	—	—
Carpenters—	30	—	317	—	51	—	—	—	—	—	—	—
Drywall installers—	2 329	60	32 509	1 125	9 366	154	106	23	49	16	8	16
Electricians—	93	25	23 881	19	8 066	12	6	—	—	—	—	—
Electrical power installers and repairers—	12	—	203	345	8 788	102	26	—	—	—	—	—
Painters, construction and maintenance—	1 352	136	22 349	1 142	8 563	339	77	8	22	—	—	—
Paperhangers—	21	—	177	25	120	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Entertainment and recreation services—Con.				Professional and related services				Health services			
	Miscellaneous entertainment and recreation services		Total		Offices of physicians		Offices of dentists		Offices of chiropractors		Offices of optometrists	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.												
Precision production, craft, and repair occupations—Con.												
Construction trades—Con.												
Construction trades, except supervisors—Con.												
Plasterers	18	—	809	10	—	—	—	—	—	—	—	—
Plumbers, pipefitters, and steamfitters	414	—	17 965	121	—	—	—	—	—	—	—	—
Concrete and terrazzo finishers	22	—	277	—	—	—	—	—	—	—	—	—
Glaziers	8	—	732	55	—	—	—	—	—	—	—	—
Insulation workers	13	—	681	45	—	—	—	—	—	—	—	—
Paving, surfacing, and tamping equipment operators	21	—	2	—	—	—	—	—	—	—	—	—
Roofers	27	—	740	6	—	—	—	—	—	—	—	—
Sheetmetal duct installers	5	—	281	—	—	—	—	—	—	—	—	—
Structural metal workers	14	—	501	19	—	—	—	—	—	—	—	—
Drillers, earth	—	—	78	5	—	—	—	—	—	—	—	—
Construction trades, n.e.c.	141	—	822	80	—	—	—	—	—	—	—	—
Supervisors, extractive occupations	30	—	388	57	—	—	—	—	—	—	—	—
Supervisors, oil well	24	—	129	5	—	—	—	—	—	—	—	—
Explosives workers	—	—	44	11	—	—	—	—	—	—	—	—
Mining machine operators	—	—	49	5	—	—	—	—	—	—	—	—
Mining occupations, n.e.c.	6	—	72	17	—	—	—	—	—	—	—	—
Precision production occupations	4 463	—	130 458	41 759	—	—	—	—	—	—	—	—
Supervisors, production occupations	2 288	—	29 586	11 714	—	—	—	—	—	—	—	—
Precision metalworking occupations	451	—	9 261	604	—	—	—	—	—	—	—	—
Tool and die makers	7	—	369	8	—	—	—	—	—	—	—	—
Precision assemblers, metal	1	—	92	40	—	—	—	—	—	—	—	—
Machinists	308	—	5 289	324	—	—	—	—	—	—	—	—
Boilermakers	18	—	1 431	18	—	—	—	—	—	—	—	—
Precision grinders, filers, and tool sharpeners	12	—	13	6	—	—	—	—	—	—	—	—
Patternmakers and model makers, metal	—	—	181	14	—	—	—	—	—	—	—	—
Lay-out workers	—	—	89	26	—	—	—	—	—	—	—	—
Precious stones and metals workers (jewelers)	13	—	153	74	—	—	—	—	—	—	—	—
Engravers, metal	12	—	191	73	—	—	—	—	—	—	—	—
Sheet metal workers	18	—	1 434	14	—	—	—	—	—	—	—	—
Miscellaneous precision metal workers	62	—	19	7	—	—	—	—	—	—	—	—
Precision woodworking occupations	34	—	1 361	239	—	—	—	—	—	—	—	—
Patternmakers and model makers, wood	—	—	62	—	—	—	—	—	—	—	—	—
Cabinet makers and bench carpenters	14	—	698	56	—	—	—	—	—	—	—	—
Furniture and wood finishers	6	—	561	172	—	—	—	—	—	—	—	—
Miscellaneous precision woodworkers	14	—	40	11	—	—	—	—	—	—	—	—
Precision textile, apparel, and furnishings machine workers	383	—	4 311	3 416	—	—	—	—	—	—	—	—
Dressmakers	320	—	3 175	3 051	—	—	—	—	—	—	—	—
Tailors	17	—	236	143	—	—	—	—	—	—	—	—
Upholsterers	35	—	676	141	—	—	—	—	—	—	—	—
Shoe repairers	—	—	81	27	—	—	—	—	—	—	—	—
Apparel and fabric patternmakers	—	—	70	20	—	—	—	—	—	—	—	—
Miscellaneous precision apparel and fabric workers	11	—	73	34	—	—	—	—	—	—	—	—
Precision workers, assorted materials	132	—	49 437	17 452	—	—	—	—	—	—	—	—
Hand makers and chaprers, except jewelers	8	—	247	24	—	—	—	—	—	—	—	—
Bookbinders	20	—	176	72	—	—	—	—	—	—	—	—
Dental laboratory and medical appliance technicians	—	—	5 216	2 732	—	—	—	—	—	—	—	—
Bookbinders	21	—	42 042	13 779	—	—	—	—	—	—	—	—
Electrical and electronic equipment assemblers	8	—	1 003	595	—	—	—	—	—	—	—	—
Miscellaneous precision workers, n.e.c.	75	—	374	169	—	—	—	—	—	—	—	—
Precision food production occupations	621	—	10 281	7 663	—	—	—	—	—	—	—	—
Butchers and meat cutters	100	—	1 275	91	—	—	—	—	—	—	—	—
Bakers	486	—	8 904	7 529	—	—	—	—	—	—	—	—
Food batchmakers	35	—	102	43	—	—	—	—	—	—	—	—
Precision inspectors, testers, and related workers	49	—	785	149	—	—	—	—	—	—	—	—
Inspectors, testers, and graders	24	—	741	144	—	—	—	—	—	—	—	—
Adjusters and calibrators	49	—	44	5	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Entertainment and recreation services—Con.		Professional and related services									
	Total		Total		Offices of physicians		Offices of dentists		Offices of chiropractors		Offices of optometrists	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Precision production, craft, and repair occupations—Con.												
Plant and system operators	505	13	25 436	522	13 223	127	—	—	—	—	2	—
Water and sewage treatment plant operators	25	—	483	21	256	10	—	—	—	—	—	—
Power plant operators	6	—	757	32	443	11	—	—	—	—	—	—
Stationary engineers	441	6	23 733	401	12 345	70	17	—	—	—	2	—
Miscellaneous plant and system operators	33	7	463	68	179	36	—	—	—	—	—	—
Operators, fabricators, and laborers	21 005	3 782	478 340	234 021	124 840	70 305	1 412	740	187	53	161	100
Machine operators, assemblers, and inspectors	4 372	1 073	167 450	90 435	85 808	59 015	509	388	312	209	119	67
Machine operators and tenders, except precision	3 496	1 262	137 331	78 853	81 233	56 681	459	345	48	12	88	55
Metalworking and plastic working machine operators	123	27	1 661	413	367	145	—	—	—	—	7	—
Lathe and turning machine set-up operators	—	—	26	2	10	2	—	—	—	—	—	—
Lathe and turning machine operators	8	—	361	103	43	20	—	—	—	—	—	—
Milling and planing machine operators	—	—	65	10	14	—	—	—	—	—	—	—
Punching and stamping press machine operators	6	6	399	46	53	18	—	—	—	—	—	—
Rolling machine operators	—	—	7	7	—	—	—	—	—	—	—	—
Drilling and boring machine operators	—	—	155	52	31	13	—	—	—	—	—	—
Grinding, abrading, buffing, and polishing machine operators	—	—	—	—	—	—	—	—	—	—	—	—
Forging machine operators	109	21	540	157	208	88	—	—	—	—	7	7
Numerical control machine operators	—	—	29	4	4	—	—	—	—	—	—	—
Miscellaneous metal, plastic, stone, and glass working machine operators	—	—	11	11	4	4	—	—	—	—	—	—
Fabricating machine operators, n.e.c.	—	—	68	25	—	—	—	—	—	—	—	—
Metal and plastic processing machine operators	22	—	158	42	27	10	—	—	—	—	—	—
Molding and casting machine operators	19	6	1 213	640	250	175	9	2	—	—	—	—
Metal plating machine operators	13	6	1 011	519	211	151	9	2	—	—	—	—
Heat treating equipment operators	—	—	167	99	22	14	—	—	—	—	—	—
Miscellaneous metal and plastic processing machine operators	—	—	35	22	17	10	—	—	—	—	—	—
Woodworking machine operators	6	—	790	66	83	8	—	—	—	—	—	—
Wood lathe, routing, and planing machine operators	45	12	6	—	—	—	—	—	—	—	—	—
Sawing machine operators	9	9	173	15	23	—	—	—	—	—	—	—
Shaping and joining machine operators	3	3	30	—	—	—	—	—	—	—	—	—
Nailing and locking machine operators	—	—	18	—	—	—	—	—	—	—	—	—
Miscellaneous woodworking machine operators	33	—	563	51	60	8	—	—	—	—	—	—
Printing machine operators	98	29	16 809	6 746	2 723	1 034	21	14	13	—	—	—
Printing machine operators	81	19	14 105	4 946	2 392	847	13	6	13	—	—	—
Photoengravers and lithographers	4	4	445	206	152	79	8	8	—	—	—	—
Typesetters and compositors	6	—	1 683	1 472	106	68	—	—	—	—	—	—
Miscellaneous printing machine operators	9	—	656	422	73	40	—	—	—	—	—	—
Textile, apparel, and furnishings machine operators	625	437	62 611	50 781	55 317	45 150	91	82	—	—	6	—
Knitting and twinning machine operators	2	—	21	14	12	10	—	—	—	—	—	—
Knitting, crocheting, tufting, and weaving machine operators	11	—	70	44	4	4	—	—	—	—	—	—
Textile cutting machine operators	4	—	67	54	38	34	—	—	—	—	—	—
Textile sewing machine operators	81	77	4 440	4 297	3 089	3 051	7	7	—	—	6	—
Shoe machine operators	—	—	96	49	34	10	—	—	—	—	—	—
Pressing machine operators	17	5	2 238	1 889	2 042	1 720	—	—	—	—	—	—
Laundering and dry cleaning machine operators	487	353	55 436	44 286	49 983	40 235	84	75	—	—	—	—
Miscellaneous textile machine operators	23	—	243	148	105	64	—	—	—	—	—	—
Machine operators, assorted materials	2 564	561	54 089	20 165	22 466	10 159	338	247	35	12	75	48
Cementing and gluing machine operators	5	—	407	197	45	15	—	—	—	—	—	—
Packaging and filling machine operators	—	—	655	425	191	150	22	22	7	—	—	—
Extruding and forming machine operators	5	—	67	19	41	19	—	—	—	—	—	—
Mixing and blending machine operators	10	8	451	258	114	68	—	—	—	—	—	—
Separating, filtering, and clarifying machine operators	17	—	351	134	192	104	—	—	—	—	—	—
Compressing and compacting machine operators	20	—	295	135	89	70	2	2	—	—	—	—
Painting and paint spraying machine operators	106	6	1 884	1 163	646	49	13	—	—	—	—	—
Roasting and baking machine operators, food	—	—	6	6	6	6	—	—	—	—	—	—
Washing, cleaning, and picking machine operators	3	—	400	111	360	81	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

	Entertainment and recreation services—Con.				Professional and related services							
					Total				Health services			
	Total	Female	Total	Female	Total	Female	Total	Female	Offices of physicians	Offices of dentists	Offices of chiropractors	Offices of optometrists
Miscellaneous entertainment and recreation services												
Rolling machine operators	8	—	325	158	85	32	—	—	—	—	—	—
Formace, kiln, and oven operators, except food	104	10	12 116	273	6 355	86	2	—	—	—	—	—
Brushing and grinding machine operators	37	—	163	90	39	—	—	—	—	—	—	—
Slicing and curving machine operators	95	8	398	398	97	48	—	—	—	—	—	—
Station picture projectionists	147	—	1 872	446	81	—	—	—	—	—	—	—
Photographic process machine operators	91	—	9 170	4 843	4 142	2 077	203	173	53	40	2	10
Miscellaneous machine operators, n.e.c.	406	124	12 764	8 253	5 539	3 333	53	20	7	20	10	42
Machine operators, not specified	1 420	290	11 794	4 289	2 472	1 176	33	17	32	13	—	35
Fabricators, assemblers, and hand working occupations												
Welders and cutters	738	155	22 437	8 365	3 543	1 792	34	34	126	74	5	26
Solders and brazers	223	6	6 143	274	778	32	—	—	35	21	2	—
Assemblers	373	106	14 676	7 358	2 460	1 636	34	34	71	44	3	26
Hand cutting and trimming occupations	—	—	80	46	14	—	—	—	—	—	—	—
Hand molding, casting, and forming occupations	16	10	249	91	60	15	—	—	4	4	—	—
Hand painting, coating and decorating occupations	93	23	495	155	87	5	—	—	5	5	—	—
Hand engraving and printing occupations	18	9	13	8	—	—	—	—	—	—	—	—
Hand grinding and polishing occupations	—	—	11	—	—	—	—	—	—	—	—	—
Miscellaneous hand working occupations	15	1	536	300	101	53	—	—	—	—	—	—
Production inspectors, testers, samplers, and weighers												
Production inspectors, checkers, and examiners	138	36	7 882	3 217	1 032	542	16	9	21	21	—	5
Production testers	83	22	3 594	1 022	627	316	16	9	21	21	—	5
Production samplers and weighers	6	—	204	59	27	4	—	—	—	—	—	—
Graders and sorters, except agricultural	—	—	61	11	11	—	—	—	—	—	—	—
Graders and sorters	49	14	4 023	2 119	367	211	—	—	—	—	—	—
Transportation and material moving occupations												
Motor vehicle operators	7 682	1 193	236 027	122 443	22 250	4 930	424	108	83	33	39	15
Supervisors, motor vehicle operators	5 954	1 091	228 675	121 554	20 361	4 615	396	96	57	28	39	15
Truck drivers, heavy	123	14	18 831	152	260	44	3	—	—	—	—	—
Truck drivers, light	1 332	249	14 618	3 247	4 879	951	77	14	9	3	6	5
Driver-sales workers	445	90	14 618	3 247	5 851	1 752	112	36	48	25	6	10
Bus drivers	300	40	1 581	514	591	231	2	2	—	—	—	—
Taxicab drivers and chauffeurs	851	248	176 389	109 655	1 673	521	—	—	—	—	—	—
Parking lot attendants	864	181	13 440	4 034	5 857	970	146	32	—	—	27	8
Motor transportation occupations, n.e.c.	2 021	262	2 872	428	1 196	136	51	7	—	—	—	—
Rail transportation occupations	18	7	147	50	54	10	5	5	—	—	—	—
Railroad conductors and yardmasters	96	37	192	35	61	8	—	—	14	—	—	—
Locomotive operating occupations	76	26	113	22	30	6	—	—	—	—	—	—
Railroad brake, signal, and switch operators	—	—	30	6	15	—	—	—	—	—	—	—
Rail vehicle operators, n.e.c.	20	11	21	—	—	—	—	—	—	—	—	—
Water transportation occupations												
Ship captains and mates, except fishing boats	300	20	589	111	60	32	—	—	7	—	—	—
Sailors and deckhands	189	11	215	11	17	11	—	—	—	—	—	—
Marine engineers	54	—	289	65	10	3	—	—	7	—	—	—
Bridge, lock, and lighthouse tenders	48	4	22	6	12	6	—	—	—	—	—	—
Material moving equipment operators	9	5	63	12	21	12	—	—	—	—	—	—
Supervisors, material moving equipment operators	1 332	45	6 571	743	1 768	275	28	12	5	5	—	—
Operating engineers	3	—	473	85	210	36	—	—	—	—	—	—
Longshore equipment operators	276	—	1 816	74	509	40	7	—	5	5	—	—
Hoist and winch operators	8	—	88	11	4	4	—	—	—	—	—	—
Crane and tower operators	19	7	80	18	10	10	5	5	—	—	—	—
Excavating and loading machine operators	38	—	346	—	27	—	—	—	—	—	—	—
Grader, dozer, and scraper operators	63	—	312	24	54	—	—	—	—	—	—	—
Industrial truck and tractor equipment operators	35	—	167	16	20	—	—	—	—	—	—	—
Miscellaneous material moving equipment operators	629	11	1 491	100	277	14	9	7	—	—	—	—
	261	27	1 798	415	657	171	—	—	—	—	—	—

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Machine operators, assemblers, and inspectors—Con.
 Machine operators and tenders, except precision—Con.
 Machine operators, assorted materials—Con.

United States

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States		Professional and related services															
Entertainment and recreation services—Con.		Total				Health services											
Miscellaneous entertainment and recreation services		Total		Female		Total		Female		Offices of physicians		Offices of dentists		Offices of chiropractors		Offices of optometrists	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.																	
Operators, fabricators, and laborers—Con.	8 951	1 326	74 663	21 143	16 782	6 360	479	244	111	95	33	27	23				
Handlers, equipment cleaners, helpers, and laborers																	
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	42	6	1 086	373	361	140	4	4									
Helpers, mechanics and repairers	52		810	47	261	12											
Helpers, construction and extractive occupations	91		7 012	381	447	23	18										
Helpers, construction trades	91		2 007	76	430	15	18										
Helpers, surveyor			5 005	305	17	8											
Helpers, extractive occupations																	
Construction laborers	472	36	4 186	264	741	47	18	5									
Production helpers	226	43	4 723	2 447	2 023	1 359	1	1	6								
Freight, stock, and material handlers	1 290	164	9 702	1 783	2 394	481	22	9	17			11	11				
Garbage collectors	99	10	911	90	350	21	6										
Stevedores			273		33				10								
Stock handlers and baggers	323	51	3 498	891	1 252	293	14	9									
Machine feeders and operators	56	23	470	287	111	88			7			11	11				
Freight, stock, and material handlers, n.e.c.	812	80	4 550	515	648	79	2										
Garage and service station related occupations	122	14	779	118	248	70	24		32	60							
Vehicle washers and equipment cleaners	238	15	2 260	1 085	871	580	17	12	18								
Hand packers and packagers	169	90	6 813	3 631	1 361	992	21	10	6								
Laborers, except construction	6 249	958	37 292	11 014	8 075	2 656	354	203	65			16	12				

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers,
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stevedores
 Stock handlers and baggers
 Machine feeders and offbearers
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States

[illegible]

Employed Persons by Detailed Industry and Sex: 1980—Con.

OCCUPATION BY INDUSTRY

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Professional and related services—Con.									
	Health services—Con.					Health services, n.e.c.				
	Offices of health practitioners, n.e.c.		Hospitals		Nursing and personal care facilities		Legal services		Educational services	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.										
Technical, sales, and administrative support occupations	10 407	9 967	1 422 376	1 235 154	134 004	127 260	171 326	144 617	1 566 693	1 304 912
Technicians and related support occupations	4 871	4 664	654 214	538 396	78 711	75 844	42 380	45 970	175 310	173 916
Health technologists and technicians	4 742	4 586	628 748	525 789	77 942	75 391	56 608	42 907	20 977	20 370
Clinical laboratory technologists and technicians	15	15	180 765	135 333	3 068	2 403	32 259	23 700	2 427	2 378
Dental hygienists	15	15	786	752	135	135	1 271	1 226	47	47
Health record technologists and technicians	22	22	12 095	11 196	551	542	649	586	184	184
Radiologic technicians	4 551	4 432	74 260	51 537	330	269	6 355	4 800	302	211
Licensed practical nurses	66	66	281 695	271 593	71 603	69 968	10 006	9 747	3 186	3 108
Health technologists and technicians, n.e.c.	45	19	79 149	55 378	2 255	1 874	6 068	2 848	13 445	7 094
Engineering and related technologists and technicians	21	9	6 787	2 669	147	58	1 743	707	36 598	13 876
Electrical and electronic technicians	21	9	2 382	641	50	237	10	63	7 033	915
Industrial engineering technicians	—	—	198	47	11	6	43	—	98	40
Mechanical engineering technicians	24	10	3 002	1 654	45	33	1 280	745	194	140
Drafting occupations	—	—	165	113	6	2	33	2	25 854	11 845
Surveying and mapping technicians	—	—	2 074	1 031	6	6	901	453	3 018	823
Science technicians	17	17	529	303	—	—	22	8	21 223	9 820
Biological technicians	6	6	416	21	—	—	289	8	21 223	9 820
Chemical technicians	—	—	1 078	416	6	6	157	6	2 599	1 224
Science technicians, n.e.c.	11	11	16 605	8 907	616	389	3 138	1 503	3 355	915
Technicians, except health, engineering, and science	67	42	44	21	8	—	2	—	15 269	7 681
Airplane pilots and navigators	—	—	—	—	—	—	—	—	96 818	36 850
Air traffic controllers	—	—	—	—	—	—	—	—	29 525	22 248
Broadcast equipment operators	—	—	227	133	—	—	—	—	25	23
Computer programmers	—	—	4 416	1 674	171	106	665	37	1 805	471
Tool programmers, numerical control	—	—	109	58	2	2	19	5	20 099	6 420
Legal assistants	—	—	556	458	3	3	346	19	346	187
Technicians, n.e.c.	67	42	11 253	6 563	432	278	2 230	1 103	26 791	20 971
Sales occupations	174	132	20 817	18 148	832	541	3 406	1 657	53 122	42 545
Salespersons and proprietors, sales occupations	18	18	962	438	222	174	286	174	1 412	1 212
Self-employed	10	10	86	58	56	41	20	6	2 632	1 368
Sales representatives, finance and business services	—	—	80	58	—	—	—	—	14	8
Real estate sales occupations	—	—	80	58	47	41	—	—	515	274
Securities and financial services sales occupations	—	—	6	—	—	—	—	—	—	—
Advertising and related sales occupations	—	—	6	—	9	—	20	6	—	—
Sales occupations, other business services	—	—	14	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	—	—	14	—	—	—	—	—	—	—
Sales engineers	—	—	—	—	—	—	—	—	—	—
Sales representatives, mining, manufacturing, and wholesale	—	—	—	—	—	—	—	—	—	—
Sales workers, retail and personal services	156	114	19 689	17 618	652	455	3 082	1 540	48 796	40 433
Sales counter clerks	137	95	2 918	2 095	365	230	2 182	750	8 955	5 229
Cashiers	16	16	16 053	15 048	217	186	599	545	233	142
Street and door-to-door sales workers	3	3	366	218	37	10	278	222	37 130	33 847
News vendors	—	—	148	95	6	6	23	23	222	1 118
Sales related occupations	—	—	66	34	2	2	6	6	272	97
Demonstrators, promoters and models, sales	—	—	19	7	—	—	—	—	808	421
Auctioneers	—	—	6	6	—	—	—	—	101	62
Sales support occupations, n.e.c.	—	—	41	21	2	2	—	—	101	62
Administrative support occupations, including clerical	5 362	5 171	747 745	678 610	54 461	50 875	105 530	97 190	317 935	303 253
Supervisors, administrative support occupations	240	212	36 998	28 130	2 714	2 136	4 682	3 827	4 369	3 805
Supervisors, general office	220	212	27 834	21 708	2 211	1 770	3 609	3 047	3 973	3 422
Supervisors, computer equipment operators	13	13	6 649	4 458	399	289	779	640	70	64
Supervisors, food processing	—	—	730	497	—	—	12	12	372	271
Chief communications operators	—	—	1 752	799	71	53	183	174	48	48
Supervisors, distribution, scheduling, and adjusting clerks	7	7	14 193	10 506	309	251	2 160	1 703	1 707	1 473
Computer equipment operators	34	28	13 543	9 992	297	244	2 074	1 632	1 405	1 091
Computer operators	—	—	650	514	12	7	66	71	102	99
Peripheral equipment operators	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Professional and related services—Con.									
Health services—Con.						Educational services			
Offices of health practitioners, n.e.c.			Hospitals			Nursing and personal care facilities			Total
Total	Female		Total	Female		Total	Female		
2 244	2 224	247 840	251 289	19 120	18 884	39 526	254 581	557 576	549 406
2 098	2 078	202 342	204 464	16 795	16 628	31 583	245 287	473 381	468 089
4	4	4 317	4 317	243	235	7 239	2 125	4 616	4 520
142	142	42 508	41 278	2 082	2 021	7 239	7 169	79 579	76 797
1 242	1 202	81 363	76 155	5 756	5 548	15 421	11 875	46 204	37 345
11	11	4 920	4 395	206	181	605	186	2 471	1 918
—	—	—	—	—	—	—	—	—	—
26	7	1 857	993	89	46	106	61	1 199	702
1 165	1 154	72 881	69 226	5 345	5 218	14 382	10 949	35 403	30 131
40	30	1 705	1 541	116	103	328	679	7 131	4 594
108	102	61 646	55 227	2 268	2 130	6 324	5 868	163 808	133 089
—	—	29	29	—	—	7	24	135	219
—	—	467	467	2	2	21	20	12	372
23	17	3 551	3 498	118	81	305	109	3 893	2 447
—	—	3 389	3 389	205	199	313	289	2 384	2 384
6	6	1 239	1 013	110	104	32	529	130 463	108 144
45	45	18 022	14 968	413	364	2 323	5 067	16 930	13 087
34	34	34 989	33 160	1 420	1 379	3 323	74	7 305	6 350
620	585	56 178	52 151	10 988	10 308	12 523	15 500	70 410	64 344
502	483	31 846	29 325	9 711	9 091	9 759	14 555	57 396	52 891
23	17	6 231	5 714	856	817	415	174	8 513	8 152
85	85	16 996	16 262	333	333	1 972	679	1 326	1 326
10	—	586	390	44	30	307	38	2 498	1 577
—	—	519	460	41	37	70	54	7 357	398
—	—	2 137	1 438	77	77	125	566	5 198	3 737
—	—	426	300	40	40	48	6	3 494	2 619
—	—	167	128	—	—	—	6	236	236
—	—	1 544	1 010	37	31	77	107	1 360	882
—	—	26 690	26 031	1 413	1 268	1 232	939	13 173	11 313
—	—	26 605	25 959	1 410	1 265	1 232	933	13 064	11 240
—	—	37	37	3	3	—	6	59	52
—	—	—	—	—	—	—	—	21	21
18	12	10 285	6 085	238	142	2 243	4 477	17 164	7 915
—	—	—	—	—	—	—	—	—	—
12	6	5 482	3 206	141	117	705	1 033	13 496	6 545
6	6	4 833	2 877	77	25	1 538	3 444	3 688	1 370
64	47	47 343	28 951	2 046	1 426	2 913	583	25 503	11 207
34	7	838	522	49	36	45	45	334	145
—	—	3 123	2 372	156	132	510	145	107	684
17	6	3 764	945	123	41	236	86	4 633	3 077
6	6	35 217	21 369	1 133	668	1 353	213	3 597	987
—	—	253	207	—	—	—	—	13 562	4 691
—	—	71	71	2	2	—	12	1 059	865
—	—	999	872	19	19	6	55	109	79
—	—	—	—	—	—	135	23	594	333
—	—	3 078	2 593	557	523	281	976	804	491
25	19	8 785	7 408	116	103	1 392	27	4 202	2 995
—	—	—	—	—	—	—	—	—	—
25	19	3 802	3 085	58	49	926	504	2 132	1 454
—	—	389	312	25	25	43	43	289	226
—	—	4 594	4 011	33	29	293	429	1 781	1 315
767	740	150 838	138 688	9 416	8 608	16 989	16 274	387 487	338 060
350	336	98 350	90 531	5 583	5 158	9 536	9 711	137 226	115 035
—	—	—	—	—	—	—	—	—	—
—	—	39	39	9	—	12	731	756	562
—	—	12 174	11 474	180	174	1 801	3 991	12 846	11 761
45	38	9 575	8 585	645	645	1 614	407	9 871	8 250
2	2	576	495	449	449	336	20	193 037	179 457
325	319	30 124	27 564	2 473	2 182	3 690	1 414	33 751	22 995

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con.
 Administrative support occupations, including clerical—Con.
 Secretaries, stenographers, and typists
 Secretaries
 Stenographers
 Typists
 Information clerks
 Information clerks
 Hotel clerks
 Transportation ticket and reservation agents
 Reservationists
 Information clerks, n.e.c.
 Records processing occupations, except financial
 Classified-ad clerks
 Correspondence clerks
 Order clerks
 Personnel clerks, except payroll and timekeeping
 Library clerks
 File clerks
 Records clerks
 Financial records processing occupations
 Bookkeepers, accounting, and auditing clerks
 Payroll and timekeeping clerks
 Billing clerks
 Cost and rate clerks
 Billing, posting, and calculating machine operators
 Duplicating, mail, and other office machine operators
 Duplicating machine operators
 Mail preparing and paper handling machine operators
 Office machine operators, n.e.c.
 Communications equipment operators
 Telephone operators
 Telegraphers
 Communications equipment operators, n.e.c.
 Mail and message distributing occupations
 Postal clerks, except mail carriers
 Mail carriers, postal service
 Mail clerks, except postal service
 Messengers
 Material recording, scheduling, and distributing clerks
 Dispatchers
 Production coordinators
 Traffic, shipping, and receiving clerks
 Stock and inventory clerks
 Meter readers
 Weighers, measurers, and checkers
 Samplers
 Expeditors
 Material recording, scheduling, and distributing clerks, n.e.c.
 Adjusters and investigators
 Insurance adjusters, examiners, and investigators
 Investigators and adjusters, except insurance
 Eligibility clerks, social welfare
 Bill and account collectors
 Miscellaneous administrative support occupations
 General office clerks
 Bank tellers
 Proofreaders
 Data-entry keyers
 Statistical clerks
 Teachers' aides
 Administrative support occupations, n.e.c.

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States

Professional and related services—Con.										
Health services—Con.							Legal services		Educational services	
Offices of health practitioners, n.e.c.			Hospitals		Nursing and personal care facilities		Health services, n.e.c.		Total	
Total	Female		Total	Female	Total	Female	Total	Female	Total	Female
9 471	8 911		1 240 883	909 257	707 171	623 927	68 720	54 724	5 115	2 421
Private household occupations	—	—	—	—	—	—	—	—	—	—
Protective service occupations	11	5	30 504	2 348	2 493	313	790	59	1 502	155
Supervisors, protective service occupations	—	—	2 110	75	93	15	14	—	29	—
Supervisors, firefighting and fire prevention occupations	—	—	112	6	24	—	—	—	15	—
Supervisors, police and detectives	—	—	—	—	—	—	—	—	—	—
Supervisors, guards	—	—	1 998	69	69	15	14	—	29	—
Firefighting and fire prevention occupations	6	—	544	18	45	—	11	—	28	—
Fire inspection and fire prevention occupations	6	—	117	13	20	—	5	—	47	—
Firefighting occupations	—	—	427	5	25	—	6	—	28	—
Police and detectives	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—
Guards	5	5	27 850	2 275	2 355	298	765	59	1 445	144
Crossing guards	—	—	13	8	—	—	—	—	—	—
Guards and police, except public service	5	5	27 747	2 253	2 340	294	687	24	1 445	144
Protective service occupations, n.e.c.	—	—	90	14	15	4	78	35	—	—
Service occupations, except protective and household	9 460	8 906	1 210 379	906 889	704 678	623 614	67 930	54 665	3 613	2 266
Food preparation and service occupations	320	285	147 404	103 525	103 485	87 283	2 470	1 818	67	43
Supervisors, food preparation and service occupations	12	12	12 818	8 954	7 024	5 861	93	75	—	—
Bar tenders	—	—	246	106	105	52	5	—	—	—
Waiters and waitresses	59	57	4 573	4 251	5 317	4 926	115	101	38	34
Cooks, except short order	100	92	52 406	37 422	48 323	43 705	1 308	1 007	24	6
Short-order cooks	6	—	499	1 383	145	116	7	—	—	—
Food counter, fountain and related occupations	—	—	1 892	1 538	159	132	8	—	—	—
Kitchen workers, food preparation	36	30	8 655	6 957	2 570	2 223	76	54	—	—
Waiters and waitresses, assistants	16	16	8 794	6 179	2 646	2 074	156	103	—	—
Miscellaneous food preparation occupations	91	78	57 521	37 275	37 194	28 174	702	473	5	3
Health service occupations	8 349	8 019	787 024	648 642	490 056	459 543	50 568	43 688	133	118
Dental assistants	56	50	3 672	3 398	572	557	3 973	3 683	40	40
Health aides, except nursing	2 016	2 000	130 368	104 973	34 592	30 742	33 142	30 592	29	29
Nursing aides, orderlies, and attendants	5 699	5 699	652 984	540 271	454 892	428 244	33 453	29 359	64	49
Cleaning and building service occupations, except household	352	184	257 957	141 681	79 666	49 187	8 545	3 675	3 217	1 967
Supervisors, cleaning and building service workers	12	—	17 218	8 267	5 203	2 971	478	120	40	29
Maid and housemen	112	112	160 726	117 629	47 301	40 806	1 968	1 630	550	474
Janitors and cleaners	228	72	78 360	15 128	27 012	5 342	5 842	1 907	2 603	1 440
Elevator operators	—	—	1 489	1 642	119	66	20	14	24	24
Pest control occupations	—	—	164	15	31	2	237	4	—	—
Personal service occupations	439	418	17 994	13 041	31 471	27 601	6 347	5 484	196	138
Supervisors, personal service occupations	—	—	794	545	344	266	82	48	7	2
Barbers	—	—	812	84	135	13	17	6	236	76
Hairdressers and cosmetologists	5	5	1 237	1 157	2 724	2 701	60	60	18	—
Attendants, amusement and recreation facilities	—	—	629	395	795	696	74	54	7	—
Guides	5	5	4 215	2 544	358	295	93	54	5 335	2 672
Ushers	19	19	41	17	45	35	19	19	2 284	1 334
Public transportation attendants	—	—	—	—	—	—	—	—	1 247	657
Baggage porters and bellhops	—	—	64	32	—	—	—	—	—	—
Welfare service aides	307	307	1 145	996	—	—	—	—	42	24
Child care workers, except private household	37	37	5 027	4 266	11 974	1 607	3 568	3 346	45	33
Personal service occupations, n.e.c.	66	45	4 030	3 005	13 368	12 238	1 254	913	26	26
Farming, forestry, and fishing occupations	56	9	6 461	555	1 624	172	500	174	74	—
Farm operators and managers	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	—	—	—	—	—	—	—	—	—	—
Related agricultural occupations	56	9	6 363	485	1 590	151	15	15	68	—
Supervisors, related agricultural occupations	—	—	91	—	—	—	485	158	—	—
Groundskeepers and gardeners, except farm	49	2	5 297	121	1 532	131	266	51	55	—
Animal caretakers, except farm	7	7	975	364	58	20	211	99	6	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	3 393	—
Inspectors, agricultural products	—	—	—	—	—	—	8	8	7	—
—	—	—	—	—	—	—	—	—	48	6

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Professional and related services—Con.									
Health services—Con.					Educational services				
Offices of health practitioners, n.e.c.		Hospitals		Nursing and personal care facilities		Health services, n.e.c.		Legal services	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
—	—	28	16	6	2	—	—	—	—
—	—	17	11	2	2	—	—	—	—
—	—	50	30	4	4	—	—	—	—
—	—	20	11	6	6	—	—	—	—
—	—	10	7	—	—	—	—	—	—
—	—	20	14	6	6	—	—	—	—
167	59	82 160	8 337	10 232	2 684	37 098	10 582	502	184
47	11	20 893	1 016	2 472	80	1 112	102	76	47
—	—	147	86	330	9	62	6	12	12
47	11	19 347	869	2 142	71	1 050	96	64	35
30	11	1 027	64	152	21	119	21	29	15
28	11	790	46	123	—	72	—	21	207
2	—	33	—	5	—	19	—	6	841
—	—	25	—	8	—	—	—	469	20
—	—	33	7	—	—	14	—	266	—
—	—	44	—	—	—	—	—	358	—
—	—	16	11	—	—	—	—	27	16
—	—	84	—	16	—	14	—	257	11
—	—	2	—	—	—	—	—	113	—
6	—	5 927	95	824	6	334	11	7	—
—	—	114	—	12	—	9	—	223	20
—	—	1 598	277	134	21	88	50	11	349
—	—	1 186	202	45	11	67	43	5	—
—	—	102	18	—	—	—	—	5 883	1 175
—	—	88	14	69	7	6	—	449	58
—	—	154	30	17	—	13	7	319	34
—	—	68	13	3	3	2	—	9	—
—	—	3 657	118	192	—	49	—	198	55
11	—	7 024	312	828	44	451	35	210	18
—	—	623	23	5	5	11	2	4 939	25
—	—	28	20	16	—	—	—	11 257	959
—	—	246	25	32	—	—	—	1 673	84
—	—	92	124	416	6	7	—	531	91
11	—	2 920	113	353	22	229	26	86	13
—	—	2 982	113	—	—	185	—	246	16
—	—	—	—	—	—	—	—	48	2
33	—	34 212	583	3 541	200	785	49	4 194	655
7	—	3 048	138	573	43	117	13	4 015	111
—	—	10	—	—	—	28	33	54 238	1 554
—	—	304	—	21	—	—	8	4 128	165
—	—	409	6	35	—	7	—	33	—
—	—	78	9	10	—	—	—	568	—
—	—	209	7	6	—	5	—	679	17
7	—	2 038	116	511	37	95	8	184	—
—	—	445	—	2 968	157	668	36	173	—
26	—	31 164	445	45	—	11	25	2 491	148
—	—	478	10	12	—	6	—	50 110	1 389
—	—	36	—	6	—	—	5	1 164	51
10	—	45	—	811	—	253	—	107	—
—	—	8 113	91	6	—	—	—	189	—
—	—	77	86	21	20	117	17	16 144	565
8	—	8 301	—	316	16	23	—	45	7
—	—	7 216	206	1 099	108	139	—	11 008	178
8	—	99	18	21	7	—	—	37	—
—	—	—	—	—	—	—	—	10 719	—
—	—	—	—	—	—	—	—	432	—

Employed persons 16 years and over—Con.

Farming, forestry, and fishing occupations—Con.	
Supervisors, forestry and logging workers	
Forestry workers, except logging	
Timber cutting and logging occupations	
Fishers, hunters, and trappers	
Captains and other officers, fishing vessels	
Fishers	
Hunters and trappers	
Precision production, craft, and repair occupations	
Mechanics and repairers	
Supervisors, mechanics and repairers	
Mechanics and repairers, except supervisors	
Vehicle and mobile equipment mechanics and repairers	
Automobile mechanics	
Bus, truck, and stationary engine mechanics	
Aircraft engine mechanics	
Small engine repairers	
Automobile body and related repairers	
Aircraft mechanics, except engine	
Heavy equipment mechanics	
Farm equipment mechanics	
Industrial machinery repairers	
Machinery maintenance occupations	
Electrical and electronic equipment repairers	
Electronic repairers, communications and industrial equipment	
Data processing equipment repairers	
Household appliance and power tool repairers	
Telephone line installers and repairers	
Telephone installers and repairers	
Miscellaneous electrical and electronic equipment repairers	
Heating, air conditioning, and refrigeration mechanics	
Miscellaneous mechanics and repairers	
Construction trades—	
Construction trades, except supervisors	
Supervisors, bricklayers, stonemasons, and tile setters	
Supervisors, carpenters and related workers	
Supervisors, electricians and power transmission installers	
Supervisors, painters, paperhangers, and plasterers	
Supervisors, plumbers, pipefitters, and steamfitters	
Supervisors, n.e.c.	
Construction trades, except supervisors	
Bricklayers and stonemasons	
Tile setters, hard and soft	
Carpet installers	
Carpenters	
Drywall installers	
Electricians	
Electrical power installers and repairers	
Painters, construction and maintenance	
Paperhangers	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Professional and related services—Con.									
Health services—Con.				Educational services					
Offices of health practitioners, n.e.c.		Hospitals		Nursing and personal care facilities		Health services, n.e.c.		Legal services	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
87	48	27 039	6 728	4 212	2 404	35 195	10 431	230	104
39	31	7 693	3 549	2 580	1 749	2 001	725	159	83
		1 545	144	167	43	177	36	8	
		38	3			9			
		8	8	95	15	109	33		
		399	4	47	9	10			
		13							
		9	9	19	19	20	3	8	
		6				7			
		29	19	6		22			
		233	7						
		118	6	25	5	17	6		
		118	6	25	5				
		1 470	1 309	265	258	70	39		
		1 194	1 192	242	242	39	32		
		104	87	2	2				
		136	17	14	14	8			
		21	5	7		6			
		15	8			17	7		
31		1 354	405	120	67	32 401	9 495	54	21
		12	12			11			
		439	154	12	6				
25		793	206	108	61	422	186		
		6	6			31 877	9 260	41	12
		23	23			46	21		
6		81	23			11	5	9	9
			4			34	23	4	17
15	15	2 538	1 218	380	264	165	94		
		624	14	68		5			
15	15	1 908	1 198	312	264	160	93		
		6	6						
		56	10	6		96	16		
		45	10	6		96	16		
		11							

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Professional and related services—Con.												
Health services—Con.						Legal services			Educational services			
Offices of health practitioners, n.e.c.		Hospitals		Nursing and personal care facilities		Health services, n.e.c.		Legal services			Educational services	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
2	2	12 265	87	669	18	268	20	9	—	7 980	190	
2	2	207	—	10	—	37	8	—	—	153	5	
—	—	409	5	21	—	13	6	—	—	278	21	
—	—	500	52	620	18	206	—	9	—	7 370	147	
—	—	149	30	18	—	12	6	—	—	179	17	
296	105	83 129	41 835	27 226	22 037	11 816	5 082	1 205	462	256 771	131 594	
120	41	58 018	35 700	22 825	20 405	3 852	2 193	681	354	41 573	14 910	
81	29	55 438	34 448	22 393	20 143	2 561	1 535	567	297	34 060	12 687	
—	—	125	42	24	3	186	87	6	—	375	97	
—	—	10	2	—	—	—	—	—	—	—	—	
—	—	29	14	8	—	—	—	—	—	150	21	
—	—	7	—	—	—	—	—	—	—	4	—	
—	—	38	9	9	3	6	6	—	—	21	2	
—	—	13	13	—	—	18	—	—	—	7	7	
—	—	20	—	—	—	162	81	6	—	32	5	
—	—	4	—	—	—	—	—	—	—	113	46	
—	—	4	4	—	—	—	—	—	—	8	—	
—	—	—	—	—	—	—	—	—	—	7	—	
—	—	—	—	—	—	—	—	—	—	33	7	
—	—	19	8	2	2	6	—	—	—	48	2	
—	—	157	123	16	11	68	39	—	—	580	313	
—	—	125	99	16	11	61	39	—	—	536	295	
—	—	22	14	—	—	7	—	—	—	32	6	
—	—	10	10	—	—	—	—	—	—	12	12	
—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	
—	—	23	—	11	8	49	—	9	—	198	25	
—	—	6	—	1	—	16	—	—	—	54	6	
—	—	—	—	—	—	—	—	—	—	24	—	
—	—	17	—	10	8	33	—	9	—	120	19	
16	—	2 377	887	74	37	222	96	169	64	9 715	4 143	
16	—	2 113	745	66	29	171	47	136	42	8 034	2 993	
—	—	108	49	—	—	36	22	21	15	187	69	
—	—	99	61	—	—	7	—	5	—	1 018	763	
—	—	57	32	8	8	8	—	7	7	476	318	
18	18	33 603	24 971	21 195	19 715	369	329	37	7	3 821	2 667	
—	—	2	—	10	10	—	—	—	—	5	—	
—	—	—	—	3	3	1	1	—	—	21	7	
—	—	38	36	—	—	—	—	—	—	4	—	
—	—	2 486	2 446	557	555	43	43	—	—	480	444	
—	—	34	10	—	—	—	—	—	—	44	31	
—	—	1 829	1 523	213	197	—	—	—	—	97	82	
18	18	29 174	20 937	20 347	18 885	325	285	28	7	3 113	2 057	
—	—	40	19	65	65	—	—	9	—	57	42	
47	11	19 134	8 417	1 071	367	1 661	984	346	226	19 323	5 440	
11	—	15	9	6	—	6	6	—	—	101	101	
—	—	21	60	15	15	77	53	—	—	194	135	
—	—	77	6	—	—	20	13	—	—	—	—	
—	—	8	6	—	—	2	2	5	—	246	144	
—	—	88	68	13	4	86	32	—	—	102	14	
—	—	47	39	7	7	33	20	7	—	39	39	
—	—	529	39	45	—	48	10	2	—	72	72	
—	—	6	6	61	49	—	—	6	—	838	50	
—	—	299	32	—	—	—	—	—	—	17	7	

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Precision production occupations—Con.

Plant and system operators—Con.

Water and sewage treatment plant operators

Power plant operators

Stationary engineers

Miscellaneous plant and system operators

Operators, fabricators, and laborers

Machine operators, assemblers, and inspectors

Machine operators and tenders, except precision

Metalworking and plastic working machine operators

Lathe and turning machine set-up operators

Lathe and turning machine operators

Milling and planing machine operators

Punching and stamping press machine operators

Rolling machine operators

Drilling and boring machine operators

Grinding, abrading, buffing, and polishing machine operators

Forging machine operators

Numerical control machine operators

Miscellaneous metal, plastic, stone, and glass working machine operators

Fabricating machine operators, n.e.c.

Metal and plastic processing machine operators

Molding and casting machine operators

Metal planing machine operators

Heat treating equipment operators

Miscellaneous metal and plastic processing machine operators

Woodworking machine operators

Wood lathe, routing, and planing machine operators

Sawing machine operators

Shaping and joining machine operators

Nailing and locking machine operators

Miscellaneous woodworking machine operators

Printing machine operators

Printing machine operators

Photoengravers and lithographers

Typesetters and compositors

Miscellaneous printing machine operators

Textile, apparel, and furnishings machine operators

Winding and twisting machine operators

Knitting, looping, taping, and weaving machine operators

Textile cutting machine operators

Textile sewing machine operators

Shoe machine operators

Pressing machine operators

Laundering and dry cleaning machine operators

Miscellaneous textile machine operators

Machine operators, assorted materials

Cementing and gluing machine operators

Packaging and filling machine operators

Extruding and forming machine operators

Mixing and blending machine operators

Separating, filtering, and carrying machine operators

Compressing and compacting machine operators

Roaming and piling machine operators

Roaming and baking machine operators, food

Washing, cleaning, and picking machine operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

Professional and related services—Con.									
Health services—Con.				Legal services				Educational services	
Offices of health practitioners, n.e.c.		Hospitals		Nursing and personal care facilities		Health services, n.e.c.		Total	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
—	—	46	28	—	—	39	4	84	47
—	—	5 875	58	424	2	54	6	5 619	197
—	—	4	—	7	7	26	19	71	19
5	—	59	22	5	5	13	—	239	72
3	—	60	6	13	13	322	223	1 598	414
17	—	3 522	2 026	125	88	335	234	3 325	1 664
11	11	6 933	5 336	342	177	574	362	2 833	1 482
—	—	1 474	600	—	—	—	—	3 864	1 035
—	—	—	—	—	—	—	—	—	—
39	12	1 989	952	329	183	995	51	5 180	1 203
8	—	578	18	32	7	123	23	2 777	134
31	12	1 251	881	250	14	794	491	1 477	135
—	—	—	—	17	—	14	—	1 941	892
—	—	5	5	16	—	34	6	28	15
—	—	53	—	—	—	13	—	51	—
—	—	—	—	—	—	—	—	219	53
—	—	—	—	—	—	—	—	—	—
—	—	84	48	—	—	17	5	—	—
—	—	—	—	—	—	—	—	97	50
—	—	591	300	103	79	296	133	2 333	1 020
—	—	359	172	24	19	202	95	405	211
—	—	—	—	—	—	27	4	53	23
—	—	—	—	—	—	11	11	21	6
—	—	232	128	79	60	56	23	1 655	780
94	38	13 562	2 158	2 079	535	5 954	2 040	189 650	110 253
94	38	11 998	1 967	1 941	496	5 821	1 972	187 187	109 930
—	—	179	25	13	—	65	19	422	81
59	18	3 312	521	442	104	969	291	7 285	1 127
20	20	2 222	470	314	76	3 119	1 115	5 795	999
—	—	2 222	470	46	20	197	62	752	217
—	—	346	147	561	174	395	203	168 964	106 099
15	—	702	144	558	117	1 040	282	2 615	1 103
—	—	4 086	531	—	—	7	—	1 294	286
—	—	1 138	129	—	—	29	—	60	18
—	—	13	—	7	5	—	—	51	6
—	—	47	8	—	—	—	—	7	—
—	—	2	2	—	—	—	—	38	—
—	—	30	6	—	—	—	—	—	—
—	—	15	—	—	—	—	—	6	6
—	—	31	19	12	6	10	7	164	66
—	—	17	11	—	—	—	—	79	17
—	—	3	3	6	6	—	—	84	49
—	—	6	6	—	—	—	—	—	—
—	—	5	5	6	6	10	7	1	—
—	—	—	—	—	—	—	—	—	—
—	—	1 486	164	126	33	123	61	2 248	251
—	—	190	29	71	—	7	7	175	39
—	—	419	24	71	11	7	—	624	22
—	—	4	4	—	—	—	—	—	—
—	—	—	—	—	—	5	5	12	—
—	—	19	—	—	—	8	—	41	—
—	—	37	—	—	—	17	—	137	6
—	—	14	—	—	—	16	—	76	9
—	—	237	7	17	3	14	4	617	28
—	—	566	100	25	19	59	45	566	147

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Machine operators, assemblers, and inspectors—Con.
 Machine operators and tenders, except precision—Con.
 Machine operators, assorted materials—Con.
 Folding machine operators
 Furnace, kiln, and oven operators, except food
 Crushing and grinding machine operators
 Slicing and cutting machine operators
 Motion picture projectionists
 Photographic process machine operators
 Miscellaneous machine operators, n.e.c.
 Machine operators, not specified
 Fabricators, assemblers, and hand working occupations
 Welders and cutters
 Solderers and brazers
 Assemblers
 Hand carrying and trimming occupations
 Hand molding, casting, and forming occupations
 Hand painting, coating and decorating occupations
 Hand engineering and painting occupations
 Hand engraving and polishing occupations
 Miscellaneous hand working occupations
 Production inspectors, testers, samplers, and weighers
 Production inspectors, checkers, and examiners
 Production testers
 Production samplers and weighers
 Production sorters and sorters, except agricultural
 Transportation and material moving occupations
 Motor vehicle operators
 Supervisors, motor vehicle operators
 Truck drivers, heavy
 Truck drivers, light
 Driver-sales workers
 Bus drivers
 Toxicab drivers and chauffeurs
 Parking lot attendants
 Motor transportation occupations, n.e.c.
 Rail transportation occupations
 Railroad conductors and yardmasters
 locomotive operating occupations
 Railroad brake, signal, and switch operators
 Rail vehicle operators, n.e.c.
 Water transportation occupations
 Ship captains and mates, except fishing boats
 Sailors and deckhands
 Marine engineers
 Bridge, lock, and lighthouse tenders
 Material moving equipment operators
 Supervisors, material moving equipment operators
 Operating engineers
 Longshore equipment operators
 Hoist and winch operators
 Crane and tower operators
 Excavating and loading machine operators
 Grader, dozer, and scraper operators
 Industrial truck and tractor equipment operators
 Miscellaneous material moving equipment operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Professional and related services—Con.									
Health services—Con.					Legal services				
Offices of health practitioners, n.e.c.		Hospitals		Nursing and personal care facilities		Health services, n.e.c.		Educational services	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
82	26	11 549	3 977	2 322	1 097	2 010	849	25 548	6 431
—	—	251	76	59	46	47	14	306	136
—	—	242	12	12	—	7	—	478	22
—	—	380	23	34	—	15	—	1 248	68
—	—	372	15	34	—	6	—	1 226	46
—	—	8	8	—	—	9	—	22	22
—	—	—	—	—	—	—	—	—	—
6	—	626	21	46	21	29	—	1 390	113
—	—	1 508	955	328	280	180	117	2 061	829
9	—	1 803	352	253	36	279	73	4 214	932
—	—	207	13	36	—	101	8	398	33
—	—	6	—	—	—	17	—	—	—
9	—	990	200	125	27	103	46	1 645	447
—	—	93	77	—	—	11	11	179	126
—	—	507	62	92	9	47	8	1 992	326
—	—	116	30	16	8	—	—	361	13
—	—	576	324	179	163	67	61	1 008	330
29	9	886	392	136	35	479	322	1 109	585
38	17	5 361	1 592	1 239	488	907	262	13 373	3 403

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers,
 n.e.c.
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stevedores
 Stock handlers and baggers
 Machine feeders and operators
 Freight, stock, and material handlers, n.e.c.
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Professional and related services—Con.													
	Educational services—Con.					Social services								
	Elementary and secondary schools		Colleges and universities		Business, trade, and vocational schools		Libraries		Educational services, n.e.c.		Total		Job training and vocational rehabilitation services	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	5 761 252	4 033 279	2 251 924	1 151 985	60 698	30 362	170 946	137 327	132 393	92 240	1 079 759	831 121	86 459	47 736
Managerial and professional specialty occupations	3 804 554	2 593 527	1 070 903	431 720	36 437	16 150	67 087	55 686	108 777	74 791	516 991	377 280	33 252	18 542
Executive, administrative, and managerial occupations	317 571	125 565	220 243	96 105	7 340	2 912	5 813	3 796	10 835	5 290	130 194	82 365	9 619	4 383
Legislators, chief executives, and general administrators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Public administration	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators and officials, public administration	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Administrators, protective services	6	—	223	—	—	—	—	—	13	—	40	5	7	—
Financial managers	1 321	474	3 253	1 102	105	31	42	27	229	122	1 518	605	125	16
Personnel and labor relations managers	2 836	1 170	4 425	2 008	313	123	171	104	176	91	2 028	1 227	250	127
Purchasing managers	399	91	875	220	24	—	16	10	21	7	255	68	72	13
Managers, marketing, advertising, and public relations	719	329	789	379	24	—	17	10	329	159	522	255	160	35
Administrators, education and related fields	223 760	69 579	113 857	45 543	2 687	972	234	153	1 905	672	24 029	21 284	354	159
Managers, medicine and health	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Managers, properties and real estate	356	64	1 196	277	6	—	12	6	22	—	372	179	24	13
Postmasters and mail superintendents	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Federal directors	11	—	56	23	—	—	—	—	13	—	149	19	—	—
Managers and administrators, n.e.c.	68 927	42 872	57 053	24 592	2 535	1 019	4 281	2 775	6 489	3 412	82 624	47 945	5 921	2 603
Salaries	68 503	42 663	56 814	24 545	2 321	954	4 258	2 775	5 916	3 116	77 891	44 112	5 866	2 589
Self-employed	424	209	239	47	214	65	23	—	573	296	4 733	3 833	55	14
Management related occupations	19 236	10 975	38 516	21 961	1 517	743	1 040	704	1 638	827	18 657	10 778	2 706	1 417
Accountants and auditors	6 973	4 346	15 551	8 813	298	164	314	224	478	201	6 076	3 238	416	190
Underwriters	25	23	14	14	—	—	38	25	69	38	1 371	946	48	16
Other financial officers	950	503	6 753	4 181	200	127	38	29	122	67	1 371	946	48	16
Management analysts	543	272	992	469	32	7	66	29	122	67	1 371	946	48	16
Personnel, training, and labor relations specialists	5 992	3 484	9 308	5 677	832	361	441	300	758	405	8 425	5 240	2 056	1 116
Purchasing agents and buyers, farm products	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Buyers, wholesale and retail trade except farm products	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Purchasing agents and buyers, n.e.c.	2 316	1 266	3 975	2 011	90	28	98	65	65	30	674	280	83	33
Business and promotion agents	49	25	315	170	43	40	26	26	52	37	217	116	—	—
Construction inspectors	274	15	349	21	—	—	—	—	—	—	177	50	15	—
Inspectors and compliance officers, except construction	1 879	912	555	115	11	11	26	12	47	13	626	255	28	28
Management related occupations, n.e.c.	235	129	704	490	11	5	31	23	47	36	371	261	21	12
Professional specialty occupations	3 486 983	2 467 962	850 660	335 615	29 097	13 238	61 274	51 890	97 942	69 501	386 797	294 915	23 633	14 159
Engineers, architects, and surveyors	1 902	341	11 584	1 024	99	17	39	9	236	107	1 138	431	161	47
Architects	505	104	999	148	—	—	16	—	32	12	127	28	7	7
Engineers	1 270	180	10 452	786	99	17	23	9	198	89	949	376	132	24
Aerospace engineers	6	—	187	25	8	—	—	—	—	—	10	—	—	—
Mining engineers	5	—	324	46	—	—	—	—	—	—	—	—	—	—
Metallurgical and materials engineers	—	—	20	7	—	—	—	—	—	—	—	—	—	—
Petroleum engineers	7	—	384	72	—	—	—	—	—	—	—	—	—	—
Chemical engineers	—	—	103	—	—	—	—	—	—	—	—	—	—	—
Nuclear engineers	—	—	649	70	7	7	—	—	9	—	22	6	—	—
Civil engineers	284	23	890	229	12	—	—	—	19	—	180	—	6	—
Agricultural engineers	12	4	3 160	29	20	—	6	9	53	7	199	142	7	—
Electrical and electronic engineers	234	32	4 420	51	5	—	—	—	345	208	376	81	17	—
Mechanical engineers	220	42	1 149	24	—	—	—	—	14	9	61	7	—	—
Industrial engineers	238	14	59	16	—	—	—	—	8	—	113	13	8	7
Marine engineers and naval architects	22	14	3 079	147	5	5	8	—	90	73	113	13	30	7
Engineers, n.e.c.	242	51	133	90	42	5	—	—	6	6	62	27	22	16
Surveyors and mapping scientists	127	57	—	—	—	—	—	—	—	—	—	—	—	—
Mathematical and computer scientists	1 938	939	8 746	2 749	101	15	242	159	122	47	1 460	860	50	30
Computer systems analysts and scientists	937	286	5 539	1 549	70	15	132	84	40	9	464	163	20	15
Operations and systems researchers and analysts	725	512	1 079	329	16	—	80	45	53	21	435	254	9	—
Actuaries	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Statisticians	230	110	1 801	841	15	—	30	30	24	12	561	443	21	15
Mathematical scientists, n.e.c.	46	31	327	30	—	—	—	—	5	5	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

	Professional and related services—Con.													
	Educational services—Con.					Social services								
	Elementary and secondary schools		Colleges and universities		Business, trade, and vocational schools		Libraries		Educational services, n.e.c.		Total		Job training and vocational rehabilitation services	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Managerial and professional specialty occupations—Con.														
Professional specialty occupations—Con.														
Natural scientists	1 022	679	22 794	5 919	26	7	42	21	369	59	925	356	99	19
Physicists and astronomers	13	13	3 142	1 177	—	—	—	—	16	16	18	16	5	—
Chemists, except biochemists	40	28	3 853	1 042	—	—	—	—	4	4	90	67	10	—
Mineralogists and space scientists	40	35	3 330	69	—	—	—	—	5	5	163	67	—	—
Geographers and geologists	8	—	1 424	197	—	—	—	—	9	9	18	6	—	—
Geophysicists and geodesists	6	—	396	81	—	—	6	—	12	12	52	40	9	5
Physicists, n.e.c.	142	69	3 365	656	13	—	8	—	160	24	70	40	9	5
Agricultural and food scientists	327	168	8 322	2 972	13	7	7	—	83	7	210	79	15	6
Biological and life scientists	50	13	319	83	—	—	21	21	66	7	112	27	2	2
Forestry and conservation scientists	376	353	1 643	642	—	—	—	—	14	7	192	121	6	6
Medical scientists	1 134	557	11 996	2 238	—	—	2	2	130	38	1 255	533	99	53
Health diagnosing occupations	1 011	503	10 011	1 891	—	—	—	—	33	17	1 069	443	88	48
Physicians	87	40	902	120	—	—	—	—	6	6	135	58	6	—
Dentists	7	—	916	177	—	—	2	2	—	—	28	17	5	—
Veterinarians	—	—	91	21	—	—	—	—	—	—	8	—	—	—
Optomists	5	5	35	8	—	—	—	—	—	—	—	—	—	—
Podiatrists	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Health diagnosing practitioners, n.e.c.	24	9	41	21	—	—	—	—	91	15	15	15	—	—
Health assessment and healing occupations	65 460	62 563	15 453	13 901	910	877	55	49	1 149	998	23 245	21 314	2 733	2 283
Registered nurses	31 011	30 726	11 238	10 886	843	829	29	29	146	135	14 360	14 074	604	581
Pharmacists	137	59	501	264	—	—	6	6	7	—	105	41	6	—
Dietitians	2 845	2 761	1 398	1 229	14	14	5	5	270	259	2 307	2 201	42	21
Therapists	31 394	28 954	2 098	1 412	53	34	9	9	720	604	6 299	4 889	2 066	1 675
Physicians' assistants	73	63	218	110	—	—	6	—	6	—	174	109	15	—
Teachers, postsecondary	8 865	5 703	604 109	215 752	735	306	102	81	545	338	939	705	230	91
Teachers, except postsecondary	3 213 783	2 267 724	20 228	18 281	24 154	10 465	845	712	85 307	62 328	139 555	132 516	4 733	3 254
Teachers, prekindergarten and kindergarten	41 388	40 642	2 549	1 262	76	72	382	372	138	130	126 725	122 890	245	212
Teachers, elementary and secondary school	3 134 907	2 201 211	—	—	—	—	—	—	—	—	—	—	—	—
Teachers, special education	13 203	9 549	1 254	789	1 361	179	39	33	2 256	1 954	2 879	2 272	1 622	1 222
Teachers, n.e.c.	24 285	16 302	16 425	6 230	22 717	10 215	424	307	82 913	60 344	9 951	7 354	2 866	1 522
Counselors, educational and vocational	92 000	50 163	50 234	29 322	1 243	535	333	297	3 321	1 807	12 211	6 584	7 169	3 585
Librarians, archivists, and curators	54 867	50 771	45 522	30 743	423	310	57 766	49 360	470	365	974	739	61	42
Librarians	54 743	50 667	43 526	29 632	406	304	57 333	49 124	456	351	857	660	57	36
Archivists and curators	124	104	1 996	1 111	17	6	433	236	14	14	117	79	4	4
Social scientists and urban planners	17 962	9 795	8 030	3 374	99	52	293	144	838	495	5 686	2 854	601	295
Economists	67	42	1 233	393	31	21	30	6	118	81	474	220	51	25
Psychologists	17 626	9 583	4 350	1 994	56	19	17	10	620	328	4 366	2 255	514	254
Sociologists	52	28	332	209	—	—	14	8	13	13	236	113	8	—
Social scientists, n.e.c.	138	99	1 750	748	6	6	232	120	87	73	231	137	28	16
Urban planners	79	43	165	30	—	—	—	—	—	—	379	129	—	—
Social, recreation, and religious workers	18 889	13 443	5 491	2 596	245	157	122	78	2 570	1 339	191 105	123 272	7 015	4 068
Social workers	16 626	12 546	2 747	1 811	195	142	114	72	1 784	974	184 647	119 917	6 551	3 914
Recreation workers	798	456	652	252	21	—	—	—	184	101	2 937	2 032	219	96
Chaplains	955	100	1 664	409	8	—	4	4	38	6	2 382	662	185	17
Religious workers, n.e.c.	510	341	428	124	21	15	4	2	564	258	1 139	661	60	41
Lawyers and judges	779	139	1 474	491	28	52	92	52	111	28	1 710	786	51	34
Lawyers	779	139	1 474	491	—	—	92	52	111	28	1 710	786	51	34
Judges	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, entertainers, and athletes	8 382	5 145	44 999	19 225	1 034	496	1 341	926	2 774	1 452	6 594	3 965	631	358
Authors	200	115	745	443	48	14	32	7	55	—	127	69	—	—
Technical writers	417	320	1 621	745	40	19	35	22	217	119	328	158	36	16
Designers	423	250	3 235	1 354	114	73	88	59	91	54	361	238	78	60
Musicians and composers	830	586	1 959	956	43	6	—	—	1 000	435	256	152	22	15
Actors and directors	151	72	999	260	63	26	102	70	70	40	223	152	18	7
Painters, sculptors, craft-artists, and artist printmakers	776	414	3 488	1 872	243	115	200	149	145	122	383	208	78	46
Photographers	309	63	3 293	965	106	30	47	15	50	6	174	61	1	—
Dancers	54	27	45	23	21	6	—	—	13	13	13	13	—	—
Artists, performers, and related workers, n.e.c.	250	124	2 382	5 085	41	21	39	18	219	84	208	112	10	—
Editors and reporters	1 599	1 248	7 963	5 085	85	53	375	237	437	300	1 052	734	146	117
Public relations specialists	2 267	1 579	8 061	4 023	185	116	414	349	381	242	3 013	1 955	198	83
Announcers	30	6	433	107	14	—	9	—	—	—	5	—	—	—
Athletes	1 076	341	10 775	2 278	31	17	—	—	96	37	451	113	44	13

Employed persons 16 years and over—Con.

Managerial and professional specialty occupations—Con.

Professional specialty occupations—Con.

Physicists and optometrists	—
Physicists, except biophysicists	—
Chemists, except biochemists	—
Astronomers and geodesists	—
Geologists and geodesists	—
Physical scientists, n.e.c.	—
Agricultural and food scientists	—
Biological and life scientists	—
Forestry and conservation scientists	—
Medical scientists	—
Health diagnosing occupations	—
Physicians	—
Dentists	—
Veterinarians	—
Optometrists	—
Podiatrists	—
Health diagnosing practitioners, n.e.c.	—
Health assessment and healing occupations	—
Registered nurses	—
Pharmacists	—
Dietitians	—
Therapists	—
Physicians' assistants	—
Teachers, postsecondary	—
Teachers, except postsecondary	—
Teachers, kindergarten and kindergarten	—
Teachers, elementary and secondary school	—
Teachers, special education	—
Teachers, special	—
Counselors, educational and vocational	—
Librarians, archivists, and curators	—
Librarians	—
Archivists and curators	—
Social scientists and urban planners	—
Economists	—
Psychologists	—
Sociologists	—
Social scientists, n.e.c.	—
Urban planners	—
Social, recreation, and religious workers	—
Social workers	—
Recreation workers	—
Clergy	—
Religious workers, n.e.c.	—
Lawyers and judges	—
Lawyers	—
Judges	—
Writers, artists, entertainers, and athletes	—
Authors	—
Technical writers	—
Designers	—
Musicians and composers	—
Actors and directors	—
Painters, sculptors, craft-artists, and artist printmakers	—
Photographers	—
Dancers	—
Artists, performers, and related workers, n.e.c.	—
Editors and reporters	—
Public relations specialists	—
Announcers	—
Athletes	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Professional and related services—Con.														
United States														
Educational services—Con.														
Elementary and secondary schools			Colleges and universities		Business, trade, and vocational schools		Libraries		Educational services, n.e.c.		Total		Social services	
Total			Female		Total		Female		Total		Female		Total	
Employed persons 16 years and over—Con.														
Technical, sales, and administrative support occupations			677 688		638 584		765 278		563 895		13 474		10 642	
Technicians and related support occupations			11 728		6 965		158 354		63 564		901		421	
Health technologists and technicians			3 114		2 926		17 236		10 156		176		160	
Dental laboratory technologists and technicians			277		242		2 600		1 912		9		5	
Dental hygienists			349		342		251		244		5		—	
Health record technologists and technicians			20		11		130		126		—		—	
Radiologic technicians			32		26		270		185		—		—	
Licensed practical nurses			2 075		2 024		13 045		6 776		160		160	
Health technologists and technicians, n.e.c.			361		281		—		—		2		—	
Engineering and related technologists and technicians			2 259		476		33 891		13 242		153		53	
Electrical and electronic technicians			1 170		122		5 663		715		80		35	
Industrial engineering technicians			39		34		59		6		—		—	
Mechanical engineering technicians			11		6		177		34		—		—	
Engineering technicians, n.e.c.			492		172		25 209		11 611		37		7	
Drafting occupations			442		97		2 517		743		36		11	
Surveying and mapping technicians			105		75		266		133		—		—	
Science technicians			318		204		20 743		9 550		11		11	
Biological technicians			37		8		2 469		1 194		8		—	
Chemical technicians			120		82		3 206		823		4		4	
Science technicians, n.e.c.			161		114		15 068		7 533		7		7	
Technicians, except health, engineering, and science			6 037		3 359		86 484		30 616		561		197	
Airplane pilots and navigators			5		—		80		12		175		11	
Air traffic controllers			—		—		—		—		—		—	
Broadcast equipment operators			190		59		1 546		403		21		9	
Computer programmers			2 553		1 055		17 077		5 125		187		59	
Tool programmers, numerical control			85		64		227		106		10		—	
Legal assistants			113		66		389		338		—		—	
Technicians, n.e.c.			3 091		2 115		66 966		24 632		168		118	
Sales occupations			24 925		23 205		25 207		17 942		1 098		468	
Supervisors and proprietors, sales occupations			618		430		1 818		827		90		35	
Self-employed			611		430		1 808		819		56		22	
Sales representatives, finance and business services			113		49		564		215		—		—	
Insurance sales occupations			—		—		—		—		—		—	
Real estate sales occupations			88		29		320		100		3		3	
Securities and financial services sales occupations			—		—		—		—		—		—	
Advertising and related sales occupations			25		20		244		115		—		—	
Sales occupations, other business services			—		—		—		—		—		—	
Sales representatives, commodities, except retail			—		—		17		5		—		—	
Sales engineers			—		—		—		—		—		—	
Sales representatives, mining, manufacturing, and wholesale			—		—		—		—		—		—	
Sales workers, retail and personal services			23 516		22 355		22 705		16 852		1 001		426	
Sales workers, commodities			1 872		1 199		4 993		3 207		788		237	
Sales counter clerks			20		19		198		114		139		128	
Cashiers			21 294		20 960		15 593		12 644		138		97	
Street and door-to-door sales workers			305		161		1 741		785		74		61	
News vendors			25		15		180		82		—		—	
Sales related occupations			678		371		103		43		7		7	
Demonstrators, promoters and models, sales			31		26		49		29		7		7	
Auctioneers			6		—		18		—		—		—	
Sales support occupations, n.e.c.			641		339		36		14		—		—	
Administrative support occupations, including clerical			641 035		608 414		581 717		482 389		11 475		9 753	
Supervisors, administrative support occupations			7 250		5 242		16 983		10 833		341		225	
Supervisors, general office			5 051		3 946		10 998		8 114		242		181	
Supervisors, computer equipment operators			333		148		1 478		591		8		8	
Supervisors, financial records processing			1 454		1 059		2 536		1 591		24		22	
Chief communications operators			23		15		95		84		8		8	
Supervisors, distribution, scheduling, and adjusting clerks			389		174		1 876		628		59		6	
Computer equipment operators			4 730		3 322		14 847		6 999		244		151	
Computer operators			4 585		3 183		14 188		6 697		233		140	
Peripheral equipment operators			145		139		659		302		11		11	

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Professional and related services—Con.											
	Educational services—Con.						Social services					
	Elementary and secondary schools		Colleges and universities		Business, trade, and vocational schools		Libraries		Educational services, n.e.c.		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.												
Technical, sales, and administrative support occupations—Con.												
Administrative support occupations, including clerical—Con.												
Secretaries, stenographers, and typists	281 438	279 451	252 950	247 163	4 957	4 897	10 254	10 018	7 977	7 877	73 242	72 078
Administrative support occupations, except financial	250 348	248 798	207 935	204 348	4 121	4 071	4 004	3 957	6 973	6 915	53 333	52 703
Secretaries	2 193	2 145	2 208	2 168	50	50	88	80	77	77	1 411	1 376
Stenographers	28 897	28 508	42 807	40 647	786	776	6 162	5 981	927	885	18 298	17 799
Typists	7 842	7 184	35 687	27 902	908	776	713	560	1 054	923	12 009	10 664
Information clerks	411	369	1 787	1 368	132	77	60	54	81	50	1 731	1 722
Interviewers	—	—	—	—	—	—	—	—	—	—	—	—
Hotel clerks	462	278	685	397	25	—	20	20	7	7	404	223
Transportation ticket and reservation agents	6 160	5 869	27 170	22 417	719	667	511	418	843	760	8 708	8 209
Receptionists	809	668	6 045	3 720	32	32	122	68	123	106	1 166	1 010
Information clerks, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Records processing occupations, except financial	36 100	34 472	62 928	45 528	638	446	63 655	52 304	487	339	4 462	3 737
Classified-ad clerks	28	28	185	107	—	—	—	—	6	—	42	36
Correspondence clerks	803	649	212	167	39	31	104	89	12	12	85	72
Order clerks	883	649	1 756	1 089	32	19	767	681	35	9	428	312
Personnel clerks, except payroll and timekeeping	1 002	955	1 713	1 313	27	27	78	62	27	27	457	371
Library clerks	25 864	25 087	43 402	30 830	338	250	60 690	49 861	169	86	225	200
File clerks	3 222	2 905	13 475	10 395	133	94	1 899	1 506	201	187	2 957	2 531
Records clerks	5 097	4 775	2 185	1 627	69	25	117	105	37	18	268	215
Financial records processing occupations	37 799	35 655	28 708	25 215	1 042	937	1 617	1 412	1 244	1 125	20 845	18 464
Bookkeepers, accounting, and auditing clerks	30 988	29 544	22 992	20 309	898	811	1 437	1 258	1 081	969	17 787	16 019
Payroll and timekeeping clerks	4 965	4 827	3 340	3 117	59	59	85	85	64	64	386	199
Billing clerks	306	270	1 120	963	18	11	62	52	30	30	387	374
Cost and rate clerks	1 308	803	1 033	646	57	51	33	17	67	60	1 140	744
Billing, posting, and calculating machine operators	232	211	223	180	10	5	—	—	2	2	145	128
Duplicating, mail, and other office machine operators	1 714	1 378	3 187	2 157	69	39	191	133	37	30	560	378
Duplicating machine operators	1 011	847	2 351	1 113	17	12	96	73	19	12	201	114
Mail preparing and paper handling machine operators	146	123	198	113	—	—	—	—	—	—	83	70
Office machine operators, n.e.c.	557	408	638	369	52	27	95	60	18	18	276	194
Communications equipment operators	3 052	2 860	9 769	8 141	86	80	195	161	71	71	1 908	1 711
Telephone operators	3 018	2 827	9 709	8 116	86	80	180	146	71	71	1 897	1 709
Telegraphers	31	31	28	21	—	—	15	15	—	—	8	2
Communications equipment operators, n.e.c.	3	2	—	—	—	—	—	—	—	—	—	—
Mail and message distributing occupations	2 491	916	13 532	6 411	145	70	802	430	194	88	1 890	981
Postal clerks, except mail carriers	—	—	—	—	—	—	—	—	—	—	—	—
Mail carriers, postal service	1 618	669	11 270	5 553	—	—	—	—	—	—	—	—
Mail clerks, except postal service	873	247	2 262	858	43	27	429	218	61	20	432	121
Messengers	—	—	—	—	—	—	—	—	—	—	—	—
Material recording, scheduling, and distributing clerks	8 206	4 067	15 773	6 295	376	183	725	478	423	184	4 254	2 292
Dispatchers	339	178	730	445	18	18	48	43	10	10	190	104
Production coordinators	1 320	982	2 926	1 831	64	51	142	115	181	98	1 251	819
Traffic, shipping, and receiving clerks	999	336	2 276	1 354	66	28	154	69	102	20	555	224
Stock and inventory clerks	4 409	1 604	8 516	2 750	196	74	347	230	94	33	1 596	674
Meter readers	—	—	—	—	—	—	—	—	—	—	—	—
Weights, measures, and checkers	761	691	263	142	7	7	21	21	7	4	359	212
Samplers	29	24	71	55	—	—	9	—	—	—	14	14
Expeditors	200	141	358	172	21	5	—	—	15	15	206	190
Material recording, scheduling, and distributing clerks, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Adjusters and investigators	149	111	433	366	4	—	4	—	14	14	83	55
Insurance adjusters, examiners, and investigators	1 663	1 301	2 203	1 429	109	77	127	96	100	92	11 934	9 537
Investigators and adjusters, except insurance	—	—	—	—	—	—	—	—	—	—	—	—
Eligibility clerks, social welfare	795	577	1 128	721	63	36	79	61	67	59	1 495	1 027
Bill and account collectors	168	140	85	50	6	6	12	12	18	18	10 070	8 332
General office clerks	700	584	990	658	40	35	36	23	15	15	369	178
Miscellaneous administrative support occupations	248 750	232 566	125 150	94 316	2 560	1 872	8 113	6 882	2 914	2 424	44 245	37 862
General office clerks	47 004	43 532	81 262	63 943	1 290	1 022	6 304	5 357	1 366	1 181	22 974	19 631
Bank tellers	—	—	—	—	—	—	—	—	—	—	—	—
Proofreaders	61	52	548	402	7	7	71	61	69	40	80	66
Data-entry keyers	3 179	3 029	8 725	7 878	249	222	534	473	1 893	1 599	1 893	1 799
Statistical clerks	3 591	3 386	5 835	4 523	103	71	205	155	137	115	1 997	1 755
Teachers' aides	180 300	172 376	12 002	6 518	341	274	120	93	2 274	2 233	6 872	6 653
Administrative support occupations, n.e.c.	14 615	10 191	16 778	11 052	570	303	879	743	909	706	10 422	7 958
Job training and vocational rehabilitation services												
Total	5 775	5 688	73 242	72 078	—	—	—	—	—	—	—	—
Female	4 535	4 535	53 333	52 703	—	—	—	—	—	—	—	—
Male	1 196	1 196	18 298	17 799	—	—	—	—	—	—	—	—
Female	957	957	12 009	10 664	—	—	—	—	—	—	—	—
Male	603	603	12 009	10 664	—	—	—	—	—	—	—	—
Total	246	246	73 242	72 078	—	—	—	—	—	—	—	—
Female	130	130	53 333	52 703	—	—	—	—	—	—	—	—
Male	116	116	18 298	17 799	—	—	—	—	—	—	—	—
Female	603	603	12 009	10 664	—	—	—	—	—	—	—	—
Male	190	190	12 009	10 664	—	—	—	—	—	—	—	—
Total	1 021	1 021	24 018	23 328	—	—	—	—	—	—	—	—
Female	403	403	53 333	52 703	—	—	—	—	—	—	—	—
Male	618	618	18 298	17 799	—	—	—	—	—	—	—	—
Female	203	203	12 009	10 664	—	—	—	—	—	—	—	—
Male	83	83	12 009	10 664	—	—	—	—	—	—	—	—
Total	286	286	65 342	63 392	—	—	—	—	—	—	—	—
Female	130	130	53 333	52 703	—	—	—	—	—	—	—	—
Male	156	156	18 298	17 799	—	—	—	—	—	—	—	—
Female	403	403	12 009	10 664	—	—	—	—	—	—	—	—
Male	183	183	12 009	10 664	—	—	—	—	—	—	—	—
Total	586	586	65 342	63 392	—	—	—	—	—	—	—	—
Female	203	203	53 333	52 703	—	—	—	—	—	—	—	—
Male	383	383	18 298	17 799	—	—	—	—	—	—	—	—
Female	130	130	12 009	10 664	—	—	—	—	—	—	—	—
Male	97	97	12 009	10 664	—	—	—	—	—	—	—	—
Total	227	227	24 018	23 328	—	—	—	—	—	—	—	—
Female	130	130	53 333	52 703	—	—	—	—	—	—	—	—
Male	97	97	18 298	17 799	—	—	—	—	—	—	—	—
Female	603	603	12 009	10 664	—	—	—	—	—			

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Professional and related services—Con.													
	Educational services—Con.					Social services								
	Elementary and secondary schools		Colleges and universities		Business, trade, and vocational schools	Libraries		Educational services, n.e.c.		Total	Female	Total	Female	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	992 896	674 745	292 964	134 747	5 628	2 528	6 953	2 309	3 392	2 046	295 208	250 786	9 917	5 359
Private household occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Protective service occupations	16 939	5 970	34 375	7 935	424	62	885	81	211	33	3 724	714	480	106
Supervisors, protective service occupations	393	54	1 038	90	5	—	15	—	11	—	116	11	37	—
Supervisors, firefighting and fire prevention occupations	—	—	15	—	—	—	—	—	—	—	—	—	—	—
Supervisors, police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Supervisors, guards	393	54	1 023	90	5	—	15	—	11	—	116	11	37	—
Firefighting and fire prevention occupations	199	19	338	28	—	—	—	—	5	—	26	—	13	—
Fire inspection and fire prevention occupations	35	12	159	21	—	—	—	—	5	—	3	—	3	—
Firefighting occupations	164	7	179	7	—	—	—	—	—	—	21	—	10	—
Police and detectives	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Police and detectives, public service	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Correctional institution officers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Guards	16 347	5 897	32 999	7 817	419	62	870	81	195	33	3 582	703	430	106
Crossing guards	1 360	853	111	73	—	—	—	—	6	—	—	—	—	—
Guards and police, except public service	12 089	3 160	27 958	5 099	404	55	864	81	189	33	3 151	502	380	100
Guards and police, except public service, n.e.c.	2 898	1 884	4 930	2 645	15	7	6	—	—	—	431	201	50	6
Protective service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Service occupations, except protective and household	975 957	668 775	258 569	126 812	5 204	2 466	6 068	2 228	3 181	2 013	291 484	250 072	9 437	5 253
Food preparation and service occupations	352 132	341 398	93 073	59 748	890	746	76	69	600	436	38 006	32 409	1 980	1 222
Supervisors, food preparation and service occupations	17 667	16 599	5 272	3 057	70	53	—	—	43	31	2 111	1 685	123	99
Bartenders	228	185	890	310	7	7	—	—	—	—	185	47	29	10
Waiters and waitresses	2 838	2 684	8 345	6 593	41	41	—	—	23	23	2 734	2 474	58	58
Cooks, except short order	173 459	170 323	20 311	13 792	415	354	52	45	316	261	23 551	21 163	893	559
Short-order cooks	341	290	824	443	2	—	—	—	—	—	36	28	—	—
Food counter, fountain and related occupations	1 550	1 461	1 454	1 150	14	14	—	—	8	—	128	117	6	6
Kitchen workers, food preparation	5 675	5 579	3 211	2 703	19	19	6	6	—	—	985	895	53	49
Waiters and waitresses' assistants	31 288	30 391	16 622	11 813	77	68	—	—	42	10	1 128	856	106	82
Miscellaneous food preparation occupations	119 086	113 886	36 144	19 887	245	190	18	18	168	111	7 148	5 144	712	359
Health service occupations	14 312	12 900	6 065	4 899	539	519	72	72	368	315	23 052	20 119	1 700	1 216
Dental assistants	132	132	1 342	1 312	24	24	—	—	—	—	239	234	20	20
Health aides, except nursing	2 791	2 553	1 595	1 170	29	25	26	26	200	174	3 641	2 637	304	199
Nursing aides, orderlies, and attendants	11 389	10 215	3 128	2 417	486	470	46	46	168	141	19 172	17 248	1 376	1 097
Cleaning and building service occupations, except household	376 648	94 827	125 821	41 642	2 802	488	5 307	1 519	978	335	32 019	14 100	3 415	886
Supervisors, cleaning and building service workers	16 775	1 020	9 104	1 584	299	187	167	—	62	19	1 148	311	162	17
Maid and housemen	10 821	8 531	11 799	9 181	100	71	263	187	78	71	8 907	7 630	440	292
Janitors and cleaners	348 772	85 182	104 465	30 741	2 369	409	4 836	1 295	809	245	21 628	6 071	2 792	571
Elevator operators	167	88	267	116	34	—	41	37	18	—	170	56	21	6
Pest control occupations	113	6	186	20	—	—	—	—	11	—	166	32	—	—
Personal service occupations	232 865	219 650	33 630	20 523	973	713	613	568	1 235	927	198 407	183 444	2 342	1 829
Supervisors, personal service occupations	119	66	871	637	11	6	14	14	6	6	278	177	12	12
Barbers	86	39	10	23	3	—	9	—	—	—	140	29	7	—
Hairstylists and cosmetologists	471	363	340	277	239	199	7	5	21	15	472	459	7	5
Attendants, amusement and recreation facilities	1 633	1 148	3 602	1 470	37	18	24	17	46	54	677	399	98	65
Guides	144	139	2 040	1 134	37	13	24	17	39	26	240	183	22	16
Ushers	103	70	1 060	524	21	13	12	7	51	43	136	92	2	2
Public transportation attendants	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	17	17	25	7	—	—	—	—	—	—	48	36	—	—
Workroom service aides	2 186	2 022	276	173	6	6	44	37	126	83	35 155	31 864	521	428
Child care workers, except private household	222 129	210 503	10 098	6 287	349	285	370	359	155	531	155 332	144 985	1 390	1 115
Child care workers, except private household	5 977	5 283	15 208	9 971	252	181	128	120	239	169	5 909	5 220	285	186
Personal service occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farming, forestry, and fishing occupations	13 552	2 203	16 987	2 549	145	25	83	8	134	41	2 762	1 160	506	131
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	30	17	320	170	8	3	—	—	—	—	56	28	23	18
Related agricultural occupations	13 423	2 104	16 578	2 358	137	22	83	8	124	33	2 646	1 107	439	99
Supervisors, related agricultural occupations	118	7	240	12	—	—	—	—	5	—	15	10	5	5
Groundskeepers and gardeners, except farm	12 890	1 777	13 374	1 223	102	16	83	8	92	18	2 456	982	419	81
Animal caretakers, except farm	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	22	6	20	—	—	—	—	—	6	—	2	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980--Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

United States

Professional and related services—Con.

Educational services—Con.

Social services

Elementary and secondary schools

Colleges and universities

Business, trade, and vocational schools

Libraries

Educational services, n.e.c.

Total

Female

Total

Female

Total

Female

Total

Female

Total

Female

Total

Female

Total

Female

Total

Female

Total

Female

Total

Female

Total

Female

Total

Female

Total

Employed persons 16 years and over—Con.

Farming, forestry, and fishing occupations—

Supervisors, forestry and logging occupations—

Forestry workers, except logging workers—

Trappers, trappers' helpers, and trappers—

Fishers, fishery workers, and fishery supervisors—

Capitans and other officers, fishing vessels—

Fishers—

Hunters and trappers—

Precision production, craft, and repair occupations—

Mechanics and repairers—

Supervisors, mechanics and repairers—

Mechanics and repairers, except supervisors—

Mechanics and mobile equipment mechanics and repairers—

Automobile mechanics—

Bus, truck, and stationary engine mechanics—

Aircraft engine mechanics—

Small engine repairers—

Automobile body and related repairers—

Aircraft mechanics, except engine—

Heavy equipment mechanics—

Farm equipment mechanics—

Industrial machinery repairers—

Machinery maintenance occupations—

Electrical and electronic equipment repairers—

Electronic repairers, telecommunications and industrial equipment—

Data processing equipment repairers—

Household appliance and power tool repairers—

Telephone line installers and repairers—

Telephone installers and repairers—

Miscellaneous electrical and electronic equipment repairers—

Heating, air conditioning, and refrigeration mechanics—

Miscellaneous mechanics and repairers—

Camera, watch, and musical instrument repairers—

Locksmiths and safe repairers—

Office machine repairers—

Mechanical controls and valve repairers—

Elevator installers and repairers—

Millwrights—

Specified mechanics and repairers, n.e.c.—

Not specified mechanics and repairers—

Construction trades—

Supervisors, construction occupations—

Supervisors, brickmasons, stonemasons, and tile setters—

Supervisors, carpenters and related workers—

Supervisors, electricians and power transmission installers—

Supervisors, painters, paperhangers, and plasterers—

Supervisors, plumbers, pipefitters, and steamfitters—

Supervisors, n.e.c.—

Construction trades, except supervisors—

Brickmasons and stonemasons—

Tile setters, hard and soft—

Carpet installers—

Carpenters—

Drywall installers—

Electricians—

Electrical power installers and repairers—

Painters, construction and maintenance—

Paperhangers—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Professional and related services—Con.											
Educational services—Con.						Social services					
Elementary and secondary schools		Colleges and universities		Business, trade, and vocational schools		Libraries		Educational services, n.e.c.		Total	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
214	—	126	—	—	—	—	—	—	—	44	—
4 606	30	3 855	55	71	—	14	—	27	—	165	—
41	—	47	—	—	—	—	—	—	—	42	—
513	—	47	—	6	6	—	—	7	39	365	—
30	—	48	—	—	—	—	—	—	—	—	—
329	—	—	—	—	—	—	—	16	—	14	—
53	—	222	—	—	—	—	—	—	—	—	—
37	—	73	—	4	—	—	—	15	—	10	—
37	—	19	13	8	—	—	—	—	—	—	—
17	5	7	—	—	—	—	—	17	12	44	12
61	22	127	24	6	6	6	—	—	10	6	—
7	—	40	12	6	—	—	—	—	6	—	—
7	—	19	5	—	—	—	—	—	—	—	—
11	11	2	—	6	—	—	—	—	—	—	—
17	11	2	—	—	—	—	—	—	—	—	—
26	11	10	7	—	—	—	—	—	6	—	—
14 871	6 640	15 302	3 712	469	164	504	318	299	96	5 578	—
3 160	1 035	5 059	1 550	159	65	277	212	150	44	3 434	822
1 217	47	2 101	140	142	10	20	—	33	3	1 547	425
—	—	13	—	7	—	—	—	—	—	26	—
6	6	6	6	10	—	—	—	—	—	5	—
422	20	2 055	101	106	10	—	—	25	—	75	17
403	—	186	—	—	—	6	—	—	—	13	—
—	—	37	—	—	—	—	—	—	—	6	—
3	7	6	—	5	—	—	—	—	—	4	—
27	7	57	26	—	—	6	—	2	21	37	19
—	—	261	7	14	—	8	—	1	10	13	—
342	7	—	—	—	—	—	—	5	—	17	—
356	49	188	8	18	5	7	—	—	—	—	—
—	—	12	—	—	—	—	—	—	94	292	72
271	34	103	2	13	—	7	—	—	—	6	—
85	15	60	6	5	—	—	—	—	2	68	2
—	—	13	—	5	5	—	—	—	88	216	70
182	119	1 021	822	62	—	12	—	—	12	12	—
98	792	766	—	27	—	—	—	19	511	834	8
10	51	17	—	27	—	—	—	14	428	398	265
52	5	167	34	35	26	4	—	5	13	254	213
6	6	6	—	—	—	—	—	—	32	78	22
—	—	—	—	—	—	—	—	—	16	10	10
—	—	5	—	—	—	—	—	—	20	52	20
221	97	1 428	551	17	11	156	106	29	65	138	14
5	5	171	9	—	—	—	—	6	13	13	2
6	—	10	—	—	—	—	—	3	5	—	—
5	—	128	20	—	—	—	—	—	—	—	—
39	25	458	156	6	—	—	—	14	8	6	—
135	54	543	352	11	—	156	106	47	27	20	—
5	5	56	—	—	—	—	—	—	16	56	10
26	3	62	14	—	—	—	—	—	43	43	2
5 298	1 125	1 345	585	19	12	—	—	11	62	6	6
5 997	97	387	33	12	12	—	—	8	16	6	—
5 161	5 065	912	552	7	—	—	—	3	74	40	4
40	27	46	—	—	—	—	—	—	2	2	—
55	31	58	5	16	6	—	—	29	24	59	2
—	31	45	5	16	6	—	—	24	19	38	18
—	—	13	—	—	—	—	—	5	5	54	13
—	—	—	—	—	—	—	—	—	—	5	5

Employed persons 16 years and over—Con.
Precision production, craft, and repair occupations—Con.
Construction trades—Con.
Construction trades, except supervisors—Con.

Plumbers, pipefitters, and steamfitters
Concrete and masonry finishers
Glaziers
Painters
Boat building and repairing equipment operators
Roofing, siding, and tamping equipment operators
Sheetmetal duct installers
Structural metal workers
Drillers, earth
Construction trades, n.e.c.
Extrusive occupations
Supervisors, extractive occupations
Drillers, oil well
Explosives workers
Mining machine operators
Mining occupations, n.e.c.
Precision production occupations
Supervisors, production occupations
Precision metalworking occupations
Tool and die makers
Precision assemblers, metal
Machinists
Boilermakers
Precision grinders, filers, and tool sharpeners
Patternmakers and model makers, metal
Lay-out workers
Precision stones and metals workers (jewelers)
Saggravers, hand
Sheet metal workers
Miscellaneous precision metal workers
Precision woodworking occupations
Patternmakers and model makers, wood
Cabinet makers and bench carpenters
Furniture and wood finishers
Miscellaneous precision woodworkers
Precision textile, apparel, and furnishings machine workers
Dressmakers
Tailors
Upholsterers
Shoe repairers
Apparel and fabric patternmakers
Miscellaneous precision apparel and fabric workers
Precision workers, assorted materials
Hand molders and shapers, except jewelers
Patternmakers, lay-out workers, and cutters
Optical goods workers
Dental laboratory and medical appliance technicians
Bookbinders
Electrical and electronic equipment assemblers
Miscellaneous precision workers, n.e.c.
Precision food production occupations
Butchers and meat cutters
Food processors
Food packagers
Precision inspectors, testers, and related workers
Inspectors, testers, and graders
Adjusters and calibrators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Professional and related services—Con.											
Educational services—Con						Social services					
Elementary and secondary schools		Colleges and universities		Business, trade, and vocational schools		Libraries		Educational services, n e c		Total	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
4 382	137	3 502	51	36	2	32	—	28	—	313	19
Precision production, craft, and repair occupations—Con.											
Precision production occupations—Con.											
Plaster and stucco treatment plant operators	43	110	3	6	2	—	—	—	—	9	—
Power plant operators	44	224	10	6	2	—	—	—	—	11	—
Stationary engineers	4 223	3 066	27	25	—	28	—	28	—	282	12
Miscellaneous plant and system operators	72	102	11	5	—	—	—	—	—	11	7
Operators, fabricators, and laborers	202 833	115 749	47 259	2 525	661	2 710	1 453	1 444	518	48 356	21 363
Machine operators, assemblers, and inspectors	13 855	8 809	23 842	8 310	466	1 579	1 032	673	293	18 647	9 663
Machine operators and tenders, except precision	11 571	4 157	19 854	7 123	288	1 404	885	462	234	7 848	4 318
Metalworking and plastic working machine operators	73	34	239	32	20	4	4	7	7	251	86
Lathe and turning machine operators	—	—	—	—	—	—	—	—	—	—	—
Lathe and turning machine operators	—	—	124	14	19	—	—	7	7	8	8
Milling and planing machine operators	—	—	4	2	—	—	—	—	—	—	—
Punching and stamping press machine operators	4	2	10	—	7	—	—	—	—	52	18
Rolling machine operators	7	—	—	—	—	—	—	—	—	—	—
Drilling and boring machine operators	18	5	14	—	—	—	—	—	—	43	28
Grinding, abrading, buffing, and polishing machine operators	29	13	60	9	20	4	4	—	—	137	21
Forging machine operators	7	—	8	—	—	—	—	—	—	—	—
Numerical control machine operators	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous metal, plastic, stone, and glass working machine operators	8	—	19	7	6	—	—	—	—	11	11
Fabricating machine operators, n e c.	19	22	—	—	—	—	—	—	—	50	24
Metal and plastic processing machine operators	138	372	192	7	—	13	—	57	15	83	62
Molding and casting machine operators	132	340	186	—	—	—	—	51	9	33	12
Metal plating machine operators	6	26	—	—	—	—	—	50	50	7	7
Heat treating equipment operators	—	6	—	—	—	—	—	6	6	—	—
Miscellaneous metal and plastic processing machine operators	—	—	—	—	—	—	—	—	—	—	—
Woodworking machine operators	40	133	6	15	13	—	—	10	—	355	29
Wood lathe, routing, and planing machine operators	—	—	—	—	—	—	—	—	—	—	—
Sawing machine operators	13	39	6	2	—	—	—	9	9	94	72
Shaping and joining machine operators	—	24	—	—	—	—	—	6	—	—	—
Nailing and tacking machine operators	—	70	—	13	13	—	—	18	—	18	13
Miscellaneous woodworking machine operators	27	6	—	—	—	—	—	237	20	191	12
Pipining machine operators	2 922	6 189	2 613	188	69	301	153	115	54	609	218
Printing machine operators	2 678	4 920	1 746	152	9	194	75	90	34	533	169
Photographers and lithographers	45	116	28	9	9	11	6	14	9	14	5
Typesetters and compositors	126	103	840	625	15	6	6	19	14	16	6
Miscellaneous printing machine operators	73	313	214	27	—	90	69	46	35	29	24
Textile, apparel, and furnishings machine operators	2 093	1 598	1 621	964	39	12	12	54	54	2 130	1 870
Winding and twisting machine operators	—	5	—	—	—	—	—	—	—	—	—
Knitting, looping, taping, and weaving machine operators	14	7	7	—	—	—	—	—	—	—	—
Textile cutting machine operators	4	—	—	—	—	—	—	—	—	45	33
Textile sewing machine operators	278	160	137	29	29	6	6	7	7	547	500
Shoe machine operators	7	11	—	—	—	—	—	26	6	8	6
Pressing machine operators	50	42	27	5	5	—	—	57	52	31	26
Laundering and dry cleaning machine operators	1 723	1 262	763	7	5	6	6	21	21	1 439	1 252
Miscellaneous textile machine operators	17	40	25	—	—	—	—	—	—	22	15
Machine operators, assorted materials	6 286	1 159	11 278	3 314	466	1 074	716	219	104	4 370	2 029
Cleaning and gluing machine operators	14	164	84	7	7	48	5	11	5	161	29
Extruding and forming machine operators	41	105	61	—	—	—	—	190	90	131	73
Mining and quarrying machine operators	—	—	—	—	—	—	—	—	—	—	—
Mining and quarrying machine operators	5	201	110	—	—	40	29	17	12	6	6
Seamless blending and classifying machine operators	40	56	9	6	—	—	—	23	16	18	18
Compressing and compacting machine operators	13	35	20	—	—	24	13	134	26	45	45
Punching and punch stamping machine operators	486	311	42	30	—	—	—	99	42	49	26
Roasting and baking machine operators, food	—	—	—	—	—	—	—	—	—	—	—
Washing, cleaning, and picking machine operators	4	13	6	—	—	—	—	17	—	11	11

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States	Professional and related services—Con.									
	Educational services—Con.					Social services				
	Elementary and secondary schools	Colleges and universities	Business, trade, and vocational schools	Libraries	Educational services, n.e.c.	Total	Female	Job training and vocational rehabilitation services	Total	Female
	Total	Female	Total	Female	Total	Female	Total	Total	Female	Total
Employed persons 16 years and over—Con.										
Operators, fabricators, and laborers—Con.										
Machine operators, assemblers, and inspectors—Con.										
Machine operators, tenders, except precision—Con.										
Machine operators, assorted materials—Con.										
Folding machine operators	13	—	—	—	—	—	—	—	—	—
Furnace, kiln, and oven operators, except food	3 411	117	—	—	—	—	—	—	—	—
Crushing and grinding machine operators	—	2 106	66	—	4	14	6	91	71	44
Slicing and cutting machine operators	39	69	—	—	—	—	19	9	7	9
Motion picture projectionists	55	160	7	—	—	—	2	17	14	17
Photographic process machine operators	642	1 500	—	28	—	19	5	255	134	119
Miscellaneous machine operators, n.e.c.	462	2 236	66	43	17	200	36	—	7	—
Machine operators, not specified	1 061	2 482	72	345	30	472	75	13	104	13
Fabricators, assemblers, and hand working occupations	1 894	2 239	833	62	159	56	152	7 084	2 699	1 003
Welders and cutters	1 019	1 336	565	—	41	—	57	8 471	4 091	3 390
Solders and brazers	12	32	3	—	—	—	—	255	37	164
Assemblers	751	806	259	56	115	—	89	7 707	3 781	54
Hand cutting and trimming occupations	7	17	—	—	—	—	—	67	—	—
Hand molding, casting, and forming occupations	29	20	—	—	—	—	4	9	15	2
Hand painting, coating, and decorating occupations	42	165	6	6	—	—	2	55	29	34
Hand engraving and printing occupations	—	—	—	—	—	—	—	13	8	—
Hand grinding and polishing occupations	—	—	—	—	—	—	—	3	—	—
Miscellaneous hand working occupations	34	63	—	—	—	—	—	204	133	97
Production inspectors, testers, samplers, and weighers	390	1 749	22	113	19	91	59	1 486	1 254	743
Production inspectors, checkers, and examiners	153	342	6	63	6	56	41	256	304	166
Production testers	16	29	—	—	—	—	7	—	—	—
Production samplers and weighers	—	15	—	—	—	—	6	—	—	—
Graders and sorters, except agricultural	221	1 363	16	50	13	35	6	1 230	950	577
Transportation and material moving occupations										
Motor vehicle operators	178 758	108 592	330	636	36	141	386	2 177	6 013	535
Supervisors, motor vehicle operators	177 806	8 202	281	552	36	93	346	1 890	5 939	484
Truck drivers, heavy	224	140	—	—	—	—	8	23	25	7
Truck drivers, light	4 696	2 178	113	222	2	32	76	3 975	939	81
Driver-sales workers	3 678	1 826	5	171	5	19	81	1 994	571	59
Bus drivers	340	355	9	43	29	7	54	26	49	1
Taxicab drivers and chauffeurs	166 798	1 991	101	20	—	—	42	4 756	2 669	238
Parking lot attendants	1 762	640	13	85	—	26	122	3 892	1 664	98
Motor transportation occupations, n.e.c.	241	1 029	6	11	—	—	—	14	6	—
Rail transportation occupations	17	43	—	—	—	—	—	—	—	—
Railroad conductors and yardmasters	29	20	2	—	—	—	—	9	9	9
Locomotive operating occupations	7	—	—	—	—	—	—	—	—	—
Railroad brake, signal, and switch operators	16	20	—	—	—	—	—	9	9	9
Rail vehicle operators, n.e.c.	6	—	—	—	—	—	—	—	—	—
Water transportation occupations										
Ship captains and mates, except fishing boats	64	69	—	26	—	22	5	—	—	—
Sailors and deckhands	43	31	—	26	—	22	5	—	—	—
Marine engineers	21	6	—	—	—	—	—	—	—	—
Bridge, lock, and lighthouse tenders	—	—	—	—	—	—	—	—	—	—
Material moving equipment operators										
Supervisors, material moving equipment operators	859	1 249	47	58	—	26	35	278	454	42
Operating engineers	91	77	—	7	—	—	1	8	10	1
Locomotive equipment operators	180	423	20	—	—	—	—	20	39	—
Hoist and winch operators	—	—	—	—	—	—	—	—	—	—
Crane and tower operators	—	12	—	—	—	—	—	—	—	—
Excavating and loading machine operators	19	22	—	—	—	—	—	—	—	—
Grader, dozer, and scraper operators	40	70	—	7	—	—	—	—	—	—
Industrial truck and tractor equipment operators	26	37	13	—	—	—	—	—	—	—
Miscellaneous material moving equipment operators	329	225	10	32	—	14	21	55	35	—
	154	383	4	12	—	12	13	195	232	41

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Professional and related services—Con.													
	Educational services—Con.						Social services							
	Elementary and secondary schools		Colleges and universities		Business, trade, and vocational schools		Libraries		Educational services, n.e.c.		Total		Job training and vocational rehabilitation services	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.														
Operators, fabricators, and laborers—Con.	10 220	2 348	13 877	3 529	571	159	495	280	385	115	14 279	5 687	8 635	3 560
Handlers, equipment cleaners, helpers, and laborers														
Supervisors, handlers, equipment cleaners, and laborers, n.e.c.	107	41	178	80	9	9	6	6	6	—	97	48	13	8
Helpers, mechanics and repairers	329	9	113	13	30	—	6	—	—	—	24	13	—	—
Helpers, construction and extractive occupations	772	25	446	43	10	—	—	—	20	—	145	11	—	—
Helpers, construction trades	772	25	424	21	10	—	—	—	20	—	128	—	—	—
Helpers, surveyor	—	—	22	22	—	—	—	—	—	—	17	11	—	—
Helpers, extractive occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Construction laborers	628	40	702	67	17	6	9	—	34	—	317	39	74	7
Production helpers	776	352	1 265	475	7	—	7	—	6	—	235	149	91	33
Freight, stock, and material handlers	1 009	146	2 954	664	64	15	154	100	33	7	1 556	230	647	128
Garbage collectors	136	7	262	26	—	—	—	—	—	—	107	6	—	—
Stevedores	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Stock handlers and baggers	345	60	1 162	305	31	15	87	67	20	—	379	98	180	47
Machine feeders and offbearers	66	50	108	76	5	—	—	—	—	—	74	61	58	45
Freight, stock, and material handlers, n.e.c.	462	29	1 422	257	28	—	67	33	13	7	996	65	409	36
Garage and service station related occupations	197	7	154	6	10	—	—	—	—	—	37	3	25	—
Vehicle washers and equipment cleaners	359	101	598	224	36	—	13	—	2	—	289	143	210	109
Hand packers and packagers	655	387	257	130	76	22	61	22	60	24	3 544	1 718	2 884	1 328
Laborers, except construction	5 388	1 240	7 210	1 827	312	107	239	145	224	84	8 031	3 333	4 691	1 947

Table 4 Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample: see Introduction. For meaning of symbols, see appendix A]

Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction.

United States

Employed persons 16 years and over

Managerial and professional specialty occupations
Executive, administrative, and managerial occupations
Legislative, executive, and general administrators;
public administrators; and general administrators
Administrators and officials; public administration
Statistical
Social
Administrators, protective services
Financial managers
Personnel and labor relations managers
Purchasing managers
Managers, marketing, advertising, and public relations
Administrators, education and related fields
Managers, medicine and health
Managers, properties and real estate
Postmasters and mail superintendents
Funeral directors
Managers and administrators, n.e.c.
Salaries
Self-employed
Management related occupations
Accountants and auditors
Underwriters
Other financial officers
Personnel, training, and labor relations specialists
Purchasing agents and buyers, farm products
Buyers, wholesale and retail trade except farm products
Purchasing agents and buyers, n.e.c.
Business and promotion agents
Construction inspectors
Inspectors and compliance officers, except construction
Management related occupations, n.e.c.

Professional specialty occupations

Engineers, architects, and surveyors
Architects
Engineers
Aerospace engineers
Metallurgical and materials engineers
Mining engineers
Petroleum engineers
Chemical engineers
Nuclear engineers
Civil engineers
Agricultural engineers
Electrical and electronic engineers
Industrial engineers
Mechanical engineers
Marine engineers and naval architects
Engineers, n.e.c.
Surveyors and mapping scientists
Mathematical and computer scientists
Computer systems analysts and scientists
Operations and systems researchers and analysts
Actuaries
Statisticians
Mathematical scientists, n.e.c.

Professional and related services—Con.

Social services—Con.

Social services, n.e.c.

Child day care services

Residential care facilities, without nursing

Museums, art galleries, and zoos

Religious organizations

Membership organizations

Engineering, architectural, and surveying services

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Employed persons 16 years and over—Con.

OCCUPATION BY INDUSTRY

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Professional and related services—Con.													
Social services—Con.				Museums, art galleries, and zoos		Religious organizations		Membership organizations		Engineering, architectural, and surveying services			
Child day care services		Residential care facilities, without nursing		Social services, n.e.c.		Total		Female		Total		Female	
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
19 067	17 821	12 846	11 297	156 401	135 936	16 172	12 519	145 204	136 086	132 363	107 805	200 293	84 474
670	539	993	807	7 051	4 784	1 480	713	1 585	561	6 254	2 731	111 757	15 469
446	421	661	598	3 288	2 684	43	31	227	209	150	122	36	7
17	6	74	56	1 167	972	—	—	31	22	111	111	—	—
—	—	—	—	193	193	—	—	—	—	—	—	—	—
—	—	—	—	26	26	—	—	6	6	42	42	—	—
—	—	—	—	31	31	—	—	44	44	39	39	40	5
—	—	—	—	510	510	—	—	175	175	208	208	47	6
421	415	519	23	255	235	43	31	15	6	178	110	124	38
8	—	—	—	596	512	278	67	304	38	2 228	495	104 123	13 670
47	21	31	8	985	512	78	67	71	8	149	21	2 273	177
5	—	5	—	82	21	—	—	—	—	9	—	93	12
—	—	—	—	5	5	—	—	—	—	—	—	—	—
—	—	—	—	8	2	—	—	—	—	8	—	791	12
6	7	19	1	610	390	55	25	48	4	306	132	8 647	1 169
7	—	—	—	111	37	92	34	148	26	1 474	31	70 890	11 652
24	3	2	5	169	57	53	37	—	—	282	32	21 429	658
5	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	183	94	53	36	63	—	212	63	1 223	242
4	4	5	5	20	5	15	9	6	—	145	35	628	77
—	—	—	—	19	5	26	15	6	—	13	5	183	71
4	4	6	—	144	85	12	12	57	—	54	23	412	94
—	—	—	—	2 595	1 494	1 106	579	991	314	3 081	1 541	6 157	1 501
173	93	290	196	5	—	7	—	25	—	36	9	73	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	66	32	16	—	79	7	200	90	129	8
—	—	9	—	784	368	75	37	360	115	778	244	2 654	802
50	32	63	25	18	5	—	—	8	5	36	22	50	9
5	5	14	9	341	183	43	36	157	35	409	245	163	50
—	—	—	—	1 381	906	965	499	362	152	1 622	931	3 088	632
118	56	204	162	—	—	—	—	—	—	—	—	—	—
603	429	340	201	7 922	4 792	4 768	3 416	1 922	1 021	10 068	4 832	5 246	504
138	94	21	17	414	212	327	201	236	110	465	189	353	8
68	39	21	17	406	212	277	184	198	79	465	189	304	8
55	—	—	—	8	—	50	17	38	31	314	144	49	—
—	—	13	13	44	16	25	8	48	11	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	6	6	14	—	10	—	48	11	66	38	137	30
—	—	7	7	30	16	15	8	—	—	248	106	53	10
—	—	—	—	—	—	—	—	—	—	—	—	3 388	365
—	—	—	—	—	—	—	—	—	—	38	—	1 154	14
—	—	—	—	—	—	—	—	—	—	38	—	1 154	14
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—					

Employed Persons by Detailed Industry and Sex: 1980—Con.

United States

Professional and related services—Con.

Professional and related services—Con.														
Social services—Con.					Museums, art galleries, and zoos			Religious organizations		Membership organizations		Engineering, architectural, and surveying services		
Social services, n.e.c.			Residential care facilities, without nursing		Social services, n.e.c.		Total	Female	Total	Female	Total	Female	Total	Female
Child day care services			Total	Female	Total	Female								
Employed persons 16 years and over—Con.														
Administrative, sales, and administrative support occupations—Con.														
Administrative support occupations, including dental—Con.														
Secretaries, stenographers, and typists	4 770	4 731	4 850	4 768	57 847	56 891	3 733	3 666	107 030	105 697	58 177	54 453	43 705	43 276
Secretaries	4 247	4 213	4 188	4 134	40 340	39 821	3 227	3 170	101 710	100 492	52 567	49 032	39 916	39 634
Stenographers	9	9	42	42	1 364	1 329	40	40	254	248	370	364	226	203
Typists	514	509	620	592	16 143	15 741	466	456	5 066	4 957	5 240	5 057	3 563	3 439
Information clerks	670	614	1 256	1 095	9 285	8 352	1 162	961	4 161	3 533	8 522	7 497	3 162	2 822
Information clerks	31	31	82	40	1 372	1 021	19	17	129	88	315	223	739	554
Hotel clerks	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hotel clerks	25	3	47	27	293	174	107	76	34	34	509	367	104	55
Reservation ticket and reservation agents	563	537	1 065	987	6 628	6 276	952	823	3 308	2 946	5 273	4 883	2 135	2 122
Receptionists	51	43	62	41	992	881	84	45	690	465	2 425	2 024	184	91
Information clerks, n.e.c.	302	279	163	131	3 701	3 124	527	358	1 303	1 100	2 777	2 315	1 987	1 268
Records processing occupations, except financial	6	6	—	—	36	30	—	—	7	—	31	30	15	10
Classified-ad clerks	—	—	—	—	85	72	5	—	130	115	145	124	23	23
Correspondence clerks	—	—	—	—	278	210	104	45	200	146	439	284	301	155
Order clerks	54	51	22	8	324	260	27	20	101	76	451	391	148	112
Personnel clerks, except payroll and timekeeping	43	43	28	28	108	89	230	198	197	168	182	163	112	112
Library clerks	86	80	25	25	2 672	2 304	141	75	567	531	1 325	1 152	1 266	811
File clerks	90	76	64	53	198	159	20	20	101	64	204	171	122	56
Records clerks	23	23	24	17	14 164	12 516	938	797	10 624	9 580	13 196	11 609	10 060	9 010
Financial records processing occupations	2 907	2 672	1 775	1 621	12 136	10 856	873	752	10 366	9 369	12 280	10 882	9 149	8 353
Bookkeepers, accounting, and auditing clerks	2 791	2 564	1 626	1 489	1 061	959	32	19	152	133	379	320	436	364
Payroll and timekeeping clerks	81	73	64	59	284	279	11	11	6	6	293	259	210	195
Billing clerks	30	30	32	32	567	357	19	12	55	30	158	68	162	63
Cost and rate clerks	5	5	15	15	116	99	3	3	45	42	86	80	103	35
Billing, posting, and calculating machine operators	—	—	—	—	409	294	29	15	231	140	248	177	399	254
Duplicating, mail, and other office machine operators	10	6	14	14	188	108	15	8	117	71	127	75	242	151
Duplicating machine operators	6	6	—	—	66	57	6	—	78	39	30	30	—	—
Mail preparing and paper handling machine operators	4	—	6	6	155	129	14	7	36	30	91	72	157	103
Office machine operators, n.e.c.	—	—	8	8	—	—	—	—	—	—	—	—	—	—
Communications equipment operators	52	46	370	340	1 282	1 168	106	102	661	549	1 214	1 021	329	299
Telephone operators	46	46	370	340	1 277	1 166	106	102	661	549	1 214	1 015	317	293
Telegraphers	6	—	—	—	2	2	—	—	—	—	16	6	12	6
Telegraphers	—	—	—	—	3	—	—	—	—	—	16	—	—	—
Communications equipment operators, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mail and message distributing occupations	38	27	84	47	1 546	755	170	81	1 276	875	1 482	721	1 253	423
Postal clerks, except mail carriers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mail carriers, except postal service	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mail carriers, postal service	10	10	64	39	1 185	666	121	61	1 148	814	1 270	669	661	296
Mail clerks, except postal service	28	17	20	8	361	89	49	20	128	61	212	52	592	127
Messengers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Material recording, scheduling, and distributing clerks	176	114	224	94	2 860	1 595	378	182	1 029	478	2 923	1 413	2 730	812
Dispatchers	—	—	16	16	154	84	66	11	6	6	768	346	26	12
Production coordinators	38	27	24	14	982	658	66	41	379	211	908	530	1 664	374
Traffic, shipping, and receiving clerks	7	7	45	6	326	154	116	16	330	101	379	110	315	55
Stock and inventory clerks	52	21	117	52	1 140	480	168	112	174	55	465	209	474	147
Meter readers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Meter readers	62	53	14	14	18	7	—	—	25	25	113	30	42	8
Weights, measurers, and checkers	—	—	—	—	7	7	—	—	11	11	—	—	17	—
Samplers	—	—	—	—	186	170	6	6	69	50	227	168	427	168
Expeditors	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Material recording, scheduling, and distributing clerks, n.e.c.	6	6	8	8	47	35	7	7	30	19	63	20	265	48
Adjusters and investigators	74	57	79	51	11 509	9 262	88	31	191	108	2 151	1 422	803	168
Insurance adjusters, examiners, and investigators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Investigators and adjusters, except insurance	20	10	12	12	1 311	914	42	9	152	83	1 929	1 220	724	97
Eligibility clerks, social welfare	45	38	45	26	9 940	8 230	17	9	21	11	41	39	39	31
Bill and account collectors	9	9	22	13	258	118	29	13	18	14	181	163	40	40
Miscellaneous administrative support occupations	8 464	8 043	2 295	1 821	30 831	26 032	2 368	1 943	12 752	10 539	19 733	15 524	10 754	7 022
General office clerks	1 060	895	1 922	1 297	19 309	16 750	1 263	1 071	8 083	6 653	13 450	10 702	5 373	3 795
Bank tellers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bank tellers	—	—	25	25	48	34	5	5	101	73	100	100	115	76
Proofreaders	—	—	92	66	1 707	1 436	31	22	772	718	1 631	1 515	1 832	1 832
Data-entry keyers	46	46	129	113	1 631	1 426	120	105	504	434	828	641	597	597
Statistical clerks	148	137	177	113	6 455	5 781	13	13	398	94	75	75	19	19
Teachers' aides	5 948	5 822	1 675	1 269	7 681	6 455	936	727	2 894	2 291	3 631	2 491	2 716	2 716
Administrative support occupations, n.e.c.	1 262	1 143	—	—	—	—	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Employed persons 16 years and over—Con.

Service occupations	158 125	149 168	149 248	158 125	149 168	149 248
Private household occupations	15 032	14 455	14 455	15 032	14 455	14 455
Private service occupations	203	80	80	203	80	80
Supervisors, protective service occupations	30	140	140	30	140	140
Supervisors, firefighting and fire prevention occupations	93	40	40	93	40	40
Supervisors, police and detectives	11	11	11	11	11	11
Supervisors, guards	11	11	11	11	11	11
Firefighting and fire prevention occupations	11	11	11	11	11	11
Fire inspection and fire prevention occupations	11	11	11	11	11	11
Firefighting occupations	11	11	11	11	11	11
Police and detectives	11	11	11	11	11	11
Police and detectives, public service	11	11	11	11	11	11
Sheriffs, bailiffs, and other law enforcement officers	11	11	11	11	11	11
Correctional institution officers	11	11	11	11	11	11
Guards	203	80	80	203	80	80
Crossing guards	149	39	39	149	39	39
Guards and police, except public service	54	41	41	54	41	41
Protective service occupations, n.e.c.	11	11	11	11	11	11
Service occupations, except protective and household	158 125	149 168	149 248	158 125	149 168	149 248
Food preparation and service occupations	15 032	14 455	14 455	15 032	14 455	14 455
Supervisors, food preparation and service occupations	489	30	30	489	30	30
Breaders and waitresses	147	140	140	147	140	140
Waiters and waitresses	12 227	11 941	11 941	12 227	11 941	11 941
Cook and short order	25	25	25	25	25	25
Short-order cooks	130	124	124	130	124	124
Food counter, fountain and related occupations	119	100	100	119	100	100
Kitchen workers, food preparation	1 865	1 676	1 676	1 865	1 676	1 676
Waiters' and waitresses' assistants	3 042	2 878	2 878	3 042	2 878	2 878
Miscellaneous food preparation occupations	268	256	256	268	256	256
Dental assistants	2 773	2 631	2 631	2 773	2 631	2 631
Health aides, except nursing	5 114	4 934	4 934	5 114	4 934	4 934
Nursing aides, orderlies, and attendants	93	84	84	93	84	84
Cleaning and building service occupations, except household	1 042	1 042	1 042	1 042	1 042	1 042
Supervisors, cleaning and building service workers	3 959	3 849	3 849	3 959	3 849	3 849
Maid and housemen	20	20	20	20	20	20
Janitors and cleaners	134 937	129 534	129 534	134 937	129 534	129 534
Elevator operators	147	132	132	147	132	132
Pest control occupations	232	225	225	232	225	225
Personal service occupations	79	79	79	79	79	79
Supervisors, personal service occupations	87	87	87	87	87	87
Barbers	6	6	6	6	6	6
Handdressers and cosmetologists	225	225	225	225	225	225
Attendants, amusement and recreation facilities	27	27	27	27	27	27
Guides	27	27	27	27	27	27
Ushers	27	27	27	27	27	27
Public transportation attendants	365	365	365	365	365	365
Baggage porters and bellhops	132 741	127 501	127 501	132 741	127 501	127 501
Welfare service aides	1 053	971	971	1 053	971	971
Child care workers, except private household	996	794	794	996	794	794
Personal service occupations, n.e.c.	28	28	28	28	28	28
Farming, forestry, and fishing occupations	957	778	778	957	778	778
Farm operators and managers	916	741	741	916	741	741
Farm occupations, except managerial	36	32	32	36	32	32
Related agricultural occupations	11	11	11	11	11	11
Supervisors, related agricultural occupations	11	11	11	11	11	11
Groundkeepers and gardeners, except farm	11	11	11	11	11	11
Animal caretakers, except farm	11	11	11	11	11	11
Animal caretakers, except farm	11	11	11	11	11	11
Graders and sorters, agricultural products	11	11	11	11	11	11
Inspectors, agricultural products	11	11	11	11	11	11

Professional and related services—Con.

Social services—Con.				Social services, n.e.c.		Museums, art galleries, and zoos		Religious organizations		Membership organizations		Engineering, architectural, and surveying services			
Residential care facilities, without nursing				Total		Female		Total		Female		Total		Female	
Child day care services				Total		Female		Total		Female		Total		Female	
158 328	149 248	30 931	43 676	83 287	65 248	11 631	4 340	111 560	60 363	61 729	31 054	3 807	1 314		
203	80	158	1 214	1 827	370	4 328	630	981	120	5 328	1 873	608	54		
—	—	4	40	39	7	183	42	36	—	54	17	63	11		
—	—	—	—	—	—	—	—	—	—	—	—	12	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
—	—	—	—	—	—	—	—	—	—	—	—				

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample, see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Professional and related services—Con.												
Social services—Con.			Museums, art galleries, and zoos		Religious organizations		Membership organizations		Engineering, architectural, and surveying services			
Social services, n.e.c.			Total		Female		Total		Female		Total	
Residential care facilities, without nursing			Total		Female		Total		Female		Total	
Child day care services			Total		Female		Total		Female		Total	
Total			Total		Female		Total		Female		Total	
Employed persons 16 years and over—Con.												
Farming, forestry, and fishing occupations—Con.												
Forestry and logging occupations												
Supervisors, forestry and logging workers												
Forestry workers, except logging												
Timber cutting and logging occupations												
Fishers, hunters, and trappers												
Captains and other officers, fishing vessels												
Fishers												
Hunters and trappers												
Precision production, craft, and repair occupations												
Mechanics and repairers												
Supervisors, mechanics and repairers												
Mechanics and repairers, except supervisors												
Vehicle and mobile equipment mechanics and repairers												
Automobile mechanics												
Bus, truck, and stationary engine mechanics												
Aircraft engine mechanics												
Small engine repairers												
Automobile body and related repairers												
Aircraft mechanics, except engine												
Heavy equipment mechanics												
Farm equipment mechanics												
Industrial machinery repairers												
Machinery maintenance occupations												
Electrical and electronic equipment repairers												
Electronic repairers												
Data processing equipment repairers												
Household appliances and power tool repairers												
Telephone line installers and repairers												
Telephone installers and repairers												
Miscellaneous electrical and electronic equipment repairers												
Heating, air conditioning, and refrigeration mechanics												
Miscellaneous mechanics and repairers												
Camera, watch, and musical instrument repairers												
Locksmiths and safe repairers												
Office machine repairers												
Mechanical controls and valve repairers												
Elevator installers and repairers												
Millwrights												
Specified mechanics and repairers, n.e.c.												
Not specified mechanics and repairers												
Construction trades												
Supervisors, construction occupations												
Supervisors, brickmasons, stonemasons, and tile setters												
Supervisors, carpenters and related workers												
Supervisors, electricians and power transmission installers												
Supervisors, painters, paperhangers, and plasterers												
Supervisors, plumbers, pipefitters, and steamfitters												
Supervisors, n.e.c.												
Construction trades, except supervisors												
Brickmasons and stonemasons												
Tile setters, hard and soft												
Carpenters												
Corset installers												
Drywall installers												
Electroplaters												
Electrical power installers and repairers												
Painters, construction and maintenance												
Paperhangers												

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.)

Professional and related services—Con.											
Social services—Con.				Museums, art galleries, and zoos		Religious organizations		Membership organizations		Engineering, architectural, and surveying services	
Child day care services		Residential care facilities, without nursing		Social services, n.e.c.							
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.											
Precision production, craft, and repair occupations—Con.											
Construction trades—Con.											
Construction trades, except supervisors—Con.											
17	—	5	—	7	—	59	—	32	—	—	—
—	—	60	—	63	—	6	—	1 749	29	408	—
—	—	7	—	—	—	8	—	91	—	—	—
—	—	8	—	357	39	5	—	44	—	7	—
—	—	8	—	—	—	—	—	155	—	5	—
—	—	8	—	—	—	—	—	—	—	—	—
—	—	8	—	2	—	—	—	50	—	14	—
—	—	—	—	6	—	—	—	24	—	87	—
—	—	—	—	10	—	—	—	274	—	44	—
—	—	—	—	—	—	—	—	—	—	194	—
—	—	15	—	17	10	29	—	90	—	144	—
—	—	—	—	6	6	—	—	12	—	194	—
—	—	—	—	—	—	—	—	7	—	96	—
—	—	—	—	—	—	—	—	—	—	24	—
—	—	—	—	—	—	—	—	5	—	47	—
—	—	—	—	6	6	—	—	—	—	10	—
—	—	—	—	—	—	—	—	—	—	2	—
530	440	711	—	2 413	814	564	177	2 199	454	6 463	475
423	376	368	171	1 716	575	193	60	824	299	2 152	131
17	17	25	6	87	18	89	6	701	21	1 217	46
—	—	—	—	5	5	—	—	8	—	148	—
7	7	—	—	—	—	—	—	—	—	29	—
—	—	6	—	45	—	56	—	139	5	771	15
—	—	13	—	—	—	6	—	233	5	71	—
—	—	—	—	6	6	—	—	2	—	3	—
—	—	—	—	—	—	9	—	—	—	76	—
7	7	6	6	—	—	—	—	—	—	13	—
3	3	—	—	21	—	11	6	12	5	—	—
—	—	—	—	10	7	7	—	9	6	17	—
—	—	—	—	—	—	—	—	8	—	89	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	19	—	102	22	93	50	23	7	36	—
—	—	—	—	6	—	29	7	—	—	27	—
—	—	1	—	24	—	64	43	25	—	5	—
—	—	18	—	68	18	—	—	5	—	7	—
—	—	—	—	4	4	—	—	6	—	—	—
22	22	118	100	296	124	53	38	161	63	14	10
22	22	81	81	134	112	39	31	114	41	5	5
—	—	13	13	12	—	—	—	10	6	5	5
—	—	19	—	114	4	—	—	29	2	6	4
—	—	5	—	9	6	—	—	6	6	—	—
—	—	—	—	18	—	—	—	8	—	—	—
—	—	—	—	9	2	14	7	—	—	—	—
32	25	10	10	43	16	43	12	32	23	80	42
—	—	—	—	18	5	10	7	—	—	259	125
7	—	—	—	19	5	7	—	6	—	14	—
5	5	3	3	—	—	—	—	10	8	25	8
20	20	7	7	—	—	10	5	47	28	34	10
—	—	—	—	6	6	9	—	10	—	7	—
—	—	—	—	—	—	—	—	7	—	166	100
—	—	—	—	—	—	—	—	—	—	13	—
—	—	33	3	53	53	11	11	239	17	14	—
—	—	16	—	—	—	—	—	10	—	8	—
—	—	17	3	53	53	11	11	21	17	6	—
—	—	—	—	—	—	—	—	55	—	—	—
—	—	—	—	21	6	—	—	7	—	326	26
—	—	—	—	21	6	—	—	—	—	316	—
—	—	—	—	—	—	—	—	—	—	10	—

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.

Construction trades—Con.

Construction trades, except supervisors—Con.

Plasterers

Plumbers, pipefitters, and steamfitters

Concrete and terrazzo finishers

Glaziers

Insulation workers

Paving, surfacing, and tamping equipment operators

Roofers

Sheetmetal duct installers

Structural metal workers

Drillers, earth

Construction trades, n.e.c.

Extractive occupations

Supervisors, extractive occupations

Drillers, oil well

Explosives workers

Mining machine operators

Mining occupations, n.e.c.

Precision production occupations

Supervisors, production occupations

Precision metalworking occupations

Tool and die makers

Precision assemblers, metal

Machinists

Boilermakers

Precision grinders, filers, and tool sharpeners

Patternmakers and model makers, metal

Lay-out workers

Precious stones and metals workers (jewelers)

Engravers, metal

Sheet metal workers

Miscellaneous precision metal workers

Precision woodworking occupations

Patternmakers and model makers, wood

Cabinet makers and bench carpenters

Furniture and wood finishers

Miscellaneous precision woodworkers

Precision textile, apparel, and furnishings machine workers

Dressmakers

Tailors

Upholsterers

Shoe repairers

Apparel and fabric patternmakers

Miscellaneous precision apparel and fabric workers

Precision workers, assorted materials

Tend molders and shapers, except jewelers

Boilermakers, lay-out workers, and carvers

Optical goods makers

Dental laboratory and medical appliance technicians

Bookbinders

Electrical and electronic equipment assemblers

Miscellaneous precision workers, n.e.c.

Precision food production occupations

Butchers and meat cutters

Bakers

Food batchmakers

Precision inspectors, testers, and related workers

Inspectors, testers, and graders

Adjusters and calibrators

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

Employed persons 16 years and over—Con.

OCCUPATION BY INDUSTRY

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A]

United States

United States

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
Machine operators, assemblers, and inspectors—Con.
Machine operators and tenders, except precision—Con.
Machine operators, assorted materials—Con.

Folding machine operators
Furnace, kiln, and oven operators, except food
Crushing and grinding machine operators
Slicing and cutting machine operators
Motion picture projectionists
Photographic process machine operators
Miscellaneous machine operators, n.e.c.
Machine operators, not specified
Fabricators, assemblers, and hand working occupations
Welders and cutters
Soldiers and brazers
Assemblers
Hand cutting and trimming occupations
Hand molding, casting, and forming occupations
Hand painting, coating and decorating occupations
Hand engraving and printing occupations
Hand grinding and polishing occupations
Miscellaneous hand working occupations

Production inspectors, testers, samplers, and weighers
Production inspectors, checkers, and examiners
Production testers
Production samplers and weighers
Graders and sorters, except agricultural

Transportation and material moving occupations
Motor vehicle operators
Supervisors, motor vehicle operators
Truck drivers, heavy
Truck drivers, light
Driver-sales workers
Bus drivers
Taxicab drivers and chauffeurs
Parking lot attendants
Motor transportation occupations, n.e.c.

Rail transportation occupations
Railroad conductors and yardmasters
Locomotive engineers and firemen
Railroad brake, signal, and switch operators
Rail vehicle operators, n.e.c.

Water transportation occupations
Ship captains and mates, except fishing boats
Sailors and deckhands
Marine engineers
Bridge, lock, and lighthouse tenders

Material moving equipment operators
Supervisors, material moving equipment operators
Operating engineers
Longshore equipment operators
Hoist and winch operators
Crane and tower operators
Excavating and loading machine operators
Grader, dozer, and scraper operators
Industrial truck and tractor equipment operators
Miscellaneous material moving equipment operators

Professional and related services—Con.

Social services—Con.

Social services, n.e.c.

Residential care facilities, without nursing

Museums, art galleries, and zoos

Religious organizations

Membership organizations

Engineering, architectural, and surveying services

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980---Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

[illegible]

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Professional and related services—Con.				Public administration				General government, n.e.c.			
	Accounting, auditing, and bookkeeping services		Noncommercial educational and scientific research		Miscellaneous professional and related services		Total		Executive and legislative offices		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over	432 120	207 432	123 344	50 443	130 299	63 747	5 147 466	2 102 567	104 744	58 242	1 273 818	597 514
Managerial and professional specialty occupations	271 537	71 616	57 768	17 062	112 256	49 093	1 578 969	538 995	52 921	21 457	393 565	135 606
Executive, administrative, and managerial occupations	266 394	70 136	19 487	7 308	8 150	3 024	1 939 079	318 804	44 485	18 360	252 733	86 151
Legislators, chief executives, and general administrators	—	—	—	—	—	—	—	—	—	—	—	—
Public administration	—	—	—	—	—	—	—	—	—	—	—	—
Administrators and officials, public administration	—	—	—	—	—	—	—	—	—	—	—	—
Federal	—	—	—	—	—	—	—	—	—	—	—	—
State	—	—	—	—	—	—	—	—	—	—	—	—
Local	—	—	—	—	—	—	—	—	—	—	—	—
Administrators, protective services	3 157	595	407	80	123	52	24 703	2 152	14 146	8 415	38 542	14 010
Financial managers	664	244	560	245	155	49	6 641	1 967	43	11	2 175	646
Personnel and labor relations managers	—	—	—	—	—	—	18 970	6 987	170	80	6 448	2 467
Purchasing managers	26	6	468	153	30	10	4 722	1 882	19	—	1 544	598
Managers, marketing, advertising, and public relations	510	95	179	74	242	36	1 430	392	32	9	483	137
Administrators, education and related fields	37	11	279	114	28	13	4 305	1 798	35	20	964	422
Managers, medicine and health	—	—	—	—	—	—	2 221	938	—	—	—	—
Managers, properties and real estate	19	—	61	6	36	15	5 089	1 223	54	7	2 047	422
Postmasters and mail superintendents	—	—	—	—	—	—	—	—	—	—	—	—
Funeral directors	—	—	—	—	—	—	—	—	—	—	—	—
Managers and administrators, n.e.c.	12 624	6 538	12 664	4 700	5 521	2 164	104	18	5	—	29	15
Salaries	10 651	5 901	12 446	4 645	4 719	1 883	122 269	40 419	2 756	1 377	40 337	13 977
Self-employed	1 973	657	218	55	802	281	122 269	40 419	2 756	1 377	40 337	13 977
Management related occupations	249 357	62 627	4 849	1 930	2 015	685	424 756	152 796	4 424	1 849	101 476	37 409
Accountants and auditors	234 183	56 172	2 147	749	667	222	131 444	56 495	950	364	34 886	13 941
Underwriters	25	6	—	—	—	—	155	75	—	—	31	9
Other financial officers	11 724	5 600	269	87	161	64	21 808	8 744	360	92	4 147	1 502
Management analysts	2 295	284	353	135	379	84	17 086	6 295	185	60	4 874	1 673
Personnel, training, and labor relations specialists	767	426	1 156	649	419	181	91 739	45 777	526	258	22 470	11 423
Purchasing agents and buyers, farm products	—	—	—	—	—	—	42	12	—	—	—	—
Buyers, wholesale and retail trade except farm products	—	—	—	—	—	—	—	—	—	—	—	—
Business and promotion agents, n.e.c.	175	88	523	211	103	50	16 035	6 543	118	51	6 099	2 485
Business and promotion agents	13	6	26	13	76	20	22 507	956	86	7	180	73
Construction inspectors	56	—	44	10	23	—	107 477	18 040	491	54	5 224	1 885
Inspectors and compliance officers, except construction	63	23	202	22	69	22	15 998	9 691	1 703	963	18 110	2 938
Management related occupations, n.e.c.	56	22	129	54	118	42	—	—	—	—	5 455	3 180
Professional specialty occupations	5 143	1 480	38 281	9 754	104 106	46 069	639 890	220 191	8 436	3 097	140 832	49 455
Engineers, architects, and surveyors	676	65	13 072	466	1 373	95	106 992	4 139	426	18	28 517	1 307
Architects	87	—	122	21	125	22	5 085	736	32	5	2 152	1 307
Engineers	573	65	12 923	445	1 214	73	98 991	3 244	384	13	25 227	902
Aerospace engineers	5	—	1 699	62	41	—	4 581	112	27	—	334	37
Metalurgical and materials engineers	—	—	194	23	64	—	799	45	—	—	180	16
Mining engineers	5	—	3	—	57	6	514	18	—	—	63	11
Petroleum engineers	—	—	15	—	11	—	407	5	—	—	93	—
Chemical engineers	6	—	329	50	121	15	1 286	80	8	8	244	9
Nuclear engineers	2	—	95	12	21	—	809	28	—	—	275	339
Civil engineers	154	7	510	26	78	—	32 158	866	195	—	11 171	339
Agricultural engineers	—	—	—	—	—	—	—	—	—	—	—	—
Electrical and electronic engineers	138	18	4 162	85	212	12	16 334	257	47	—	42	23
Industrial engineers	31	7	408	37	96	10	7 499	608	27	—	2 969	218
Mechanical engineers	82	7	1 308	30	92	10	6 033	181	19	5	1 692	30
Marine engineers and naval architects	—	—	—	—	—	—	773	43	—	—	1 361	50
Engineers, n.e.c.	150	26	4 054	115	409	30	27 327	790	61	—	6 956	199
Surveyors and mapping scientists	16	—	27	—	34	—	2 916	159	10	—	838	70
Mathematical and computer scientists	1 423	340	3 508	906	2 491	781	50 948	14 827	442	165	13 334	3 967
Computer systems analysts and scientists	872	231	1 975	473	293	95	23 415	5 702	181	68	6 754	1 773
Operations and systems researchers and analysts	340	19	770	164	250	64	16 081	4 915	193	71	4 028	1 273
Quarries	155	19	—	—	1 932	550	2 220	73	—	—	93	34
Structurians	50	31	447	156	125	62	8 995	3 641	68	26	2 063	851
Mathematical scientists, n.e.c.	6	—	616	113	91	10	2 257	496	—	—	396	86

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A.]

[illegible]

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Professional and related services—Con.				Public administration				General government, n.e.c.			
	Accounting, auditing, and bookkeeping services		Noncommercial educational and scientific research		Miscellaneous professional and related services		Total		Executive and legislative offices		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.												
Technical, sales, and administrative support occupations	157 433	134 423	50 656	29 828	19 591	12 773	1 893 969	1 331 806	43 849	35 014	537 833	397 809
Technicians and related support occupations	2 541	1 087	21 928	6 537	5 273	1 666	261 282	84 933	5 338	2 609	52 413	16 808
Health technologists and technicians	72	41	1 056	621	237	116	12 889	6 737	38	28	2 493	1 514
Dental hygienists	—	—	255	170	71	47	2 572	1 457	19	17	435	236
Health record technologists and technicians	2	2	6	6	—	—	398	366	—	—	72	72
Radiologic technicians	6	—	23	23	—	—	491	357	—	—	85	60
Licensed practical nurses	26	7	36	16	2	2	250	118	—	—	42	18
Health technologists and technicians, n.e.c.	38	32	106	106	26	12	3 124	2 816	4	4	889	823
Engineering and related technologists and technicians	462	111	7 739	1 673	1 289	361	6 054	1 623	15	7	970	305
Electrical and electronic technicians	87	30	2 508	201	319	41	27 465	3 388	69	15	4 864	716
Industrial engineering technicians	14	14	13	—	10	10	472	88	12	4	93	16
Mechanical engineering technicians	14	14	357	8	31	5	749	88	—	—	230	17
Engineering technicians, n.e.c.	37	12	3 930	1 278	447	154	17 835	3 773	31	22	4 711	975
Drafting occupations	286	45	829	159	455	143	18 560	4 206	140	30	2 397	1 563
Surveying and mapping technicians	38	10	102	27	25	8	6 823	785	17	10	2 097	244
Science technicians	20	14	1 725	479	488	145	10 375	3 041	32	—	2 032	659
Biological technicians	—	—	383	106	111	57	3 970	1 002	—	—	574	215
Chemical technicians	6	—	402	93	131	20	1 497	403	—	—	379	141
Science technicians, n.e.c.	14	14	940	280	246	68	4 908	1 536	14	—	1 079	303
Technicians, except health, engineering, and science	1 987	921	11 408	3 764	3 261	1 044	166 114	62 827	4 999	2 498	28 496	11 104
Aircraft pilots and navigators	—	—	67	—	8	—	2 536	65	14	—	313	31
Broadcast equipment operators	9	—	103	25	28	8	40 131	5 922	52	24	2 890	1 079
Computer programmers	1 677	714	2 319	749	478	183	40 838	24 103	34	16	1 294	552
Tool programmers, numerical control	23	7	39	23	12	5	29 635	10 645	252	103	10 859	3 854
Legal assistants	135	127	119	67	114	58	12 014	7 417	15	—	246	84
Technicians, n.e.c.	143	73	8 761	2 880	2 621	790	40 225	14 386	3 316	1 755	2 524	1 537
Sales occupations	2 044	678	1 399	782	1 869	624	33 359	18 898	1 516	600	10 370	3 998
Supervisors and proprietors, sales occupations	207	52	112	29	141	44	3 041	940	62	40	719	168
Salaried	136	29	105	29	93	26	3 041	940	62	40	719	168
Self-employed	71	23	7	—	48	18	—	—	—	—	—	—
Sales representatives, finance and business services	1 516	378	449	106	1 510	465	7 390	1 392	51	18	2 324	407
Insurance sales occupations	—	—	—	—	19	—	7 176	1 297	—	—	2 282	384
Real estate sales occupations	16	2	17	—	21	13	95	54	—	—	—	—
Securities and financial services sales occupations	302	85	—	—	1 470	452	119	41	—	—	20	14
Advertising and related sales occupations	1 198	291	432	106	—	—	389	154	—	—	22	9
Sales occupations, other business services	16	—	7	—	17	—	—	—	—	—	—	—
Sales representatives, commodities, except retail	16	—	7	—	17	—	—	—	—	—	—	—
Sales engineers	16	—	7	—	17	—	31	—	21	—	173	71
Sales representatives, mining, manufacturing, and wholesale	—	—	—	—	—	—	—	—	—	—	23	—
Sales workers, retail and personal services	295	244	812	628	183	109	358	154	21	—	150	71
Sales workers, commodities	—	—	—	—	—	—	22 237	16 344	404	278	6 739	4 800
Sales counter clerks	8	—	6	—	—	—	7 372	4 022	156	79	2 113	1 050
Cashiers	210	174	83	79	44	35	165	81	—	—	51	13
Street and door-to-door sales workers	66	61	723	549	139	74	13 723	11 617	223	180	4 253	3 509
News vendors	11	9	—	—	—	—	543	337	12	7	163	103
Sales related occupations	10	4	19	19	18	6	302	68	6	6	159	125
Demonstrators, promoters and models, sales	—	—	—	—	12	6	63	21	—	—	38	21
Technicians, n.e.c.	6	—	—	—	—	—	12	—	—	—	—	—
Sales support occupations, n.e.c.	4	—	12	12	6	—	—	47	6	—	82	8
Administrative support occupations, including clerical	152 848	132 658	27 329	22 509	12 449	10 483	1 599 328	1 227 975	37 967	32 063	475 345	375 526
Supervisors, administrative support occupations	7 176	3 518	1 703	772	598	360	188 295	71 334	2 384	1 294	46 517	19 030
Supervisors, general office	2 380	1 953	1 056	565	465	316	166 581	63 052	2 149	1 142	39 538	16 354
Supervisors, computer equipment operators	259	126	226	27	44	14	5 332	1 351	43	43	1 728	613
Supervisors, financial records processing	4 458	1 406	290	150	47	18	12 670	5 778	132	80	4 256	1 949
Chief communications operators	6	—	22	—	7	—	504	278	17	17	211	132
Supervisors, distribution, scheduling, and adjusting clerks	73	—	109	30	35	12	3 208	875	12	12	784	201
Computer equipment operators	6 293	5 075	1 179	666	351	234	39 185	23 219	12	495	13 493	7 518
Computer operators	5 999	4 848	1 136	638	339	222	37 254	22 079	661	38	12 775	7 117
Peripheral equipment operators	294	233	43	28	12	12	1 931	1 140	61	38	778	401

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Professional and related services—Con.				Public administration				Local government, n.e.c.			
	Accounting, auditing, and bookkeeping services		Noncommercial educational and scientific research		Miscellaneous professional and related services		Total		Executive and legislative offices		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Technical, sales, and administrative support occupations—Con.												
Administrative support occupations, including clerical—Con.												
Secretaries, stenographers, and typists	46 644	46 240	12 214	12 008	5 719	5 549	526 482	511 486	16 038	15 494	172 577	168 426
Secretaries	38 875	38 597	10 381	10 250	4 936	4 802	333 795	328 855	12 330	12 087	114 129	112 382
Stenographers	263	241	122	122	71	61	32 256	28 027	406	369	5 921	5 488
Typists	7 506	7 402	1 711	1 636	712	686	160 431	154 804	3 302	3 238	51 321	49 856
Information clerks	4 499	4 400	1 482	1 284	577	491	83 680	62 715	1 182	1 028	15 839	12 835
Interviewers	64	35	457	390	86	70	45 815	31 031	75	64	2 627	1 730
Hotel clerks	70	63	—	—	8	8	3 403	1 949	—	—	1 151	656
Transportation ticket and reservation agents	4 187	4 137	662	648	367	356	27 086	24 516	888	807	10 228	9 203
Receptionists	178	165	302	213	116	57	7 376	5 219	149	149	1 833	1 246
Information clerks, n.e.c.	1 948	1 617	827	642	376	308	66 000	50 865	1 570	1 205	19 916	15 463
Records processing occupations, except financial	6	—	—	—	—	—	222	115	31	14	68	34
Classified-ad clerks	59	59	21	9	—	—	1 620	1 298	187	114	295	247
Correspondence clerks	135	97	89	43	73	52	4 573	2 855	54	38	3 376	826
Order clerks	75	64	101	101	34	28	13 106	10 294	91	69	3 527	2 621
Personnel clerks, except payroll and timekeeping	59	54	159	144	32	29	2 134	1 698	28	28	943	764
Library clerks	1 514	1 277	341	271	198	169	35 733	28 081	949	767	10 485	8 347
File clerks	100	66	116	74	39	30	8 612	6 524	230	175	3 222	2 624
Records clerks	69 822	58 179	2 558	2 023	1 292	1 068	109 271	86 819	2 838	2 152	42 923	35 205
Financial records processing occupations	67 681	56 228	2 125	1 690	1 011	944	83 095	66 582	2 215	1 687	33 166	27 324
Bookkeepers, accounting, and auditing clerks	614	568	193	163	59	56	16 738	14 101	323	278	6 326	5 200
Payroll and timekeeping clerks	1 141	1 083	91	84	63	57	2 802	2 432	201	121	1 568	1 466
Billing clerks	73	46	136	73	53	5	4 784	2 175	40	12	1 389	623
Cost and rate clerks	313	254	13	13	16	6	1 852	1 529	59	54	668	592
Billing, posting, and calculating machine operators	311	246	158	111	67	51	6 284	4 166	345	180	2 699	1 812
Duplicating, mail, and other office machine operators	109	86	96	72	37	31	1 908	1 115	81	21	808	522
Duplicating machine operators	5	—	14	14	—	—	265	132	43	12	104	54
Mail preparing and paper handling machine operators	197	155	48	25	30	20	4 111	2 919	221	147	1 787	1 236
Office machine operators, n.e.c.	191	186	248	232	56	56	11 174	9 840	151	143	4 494	4 083
Communications equipment operators	191	186	248	232	56	56	10 850	9 712	142	134	4 427	4 054
Telephone operators	—	—	—	—	—	—	75	48	9	9	5	—
Telegraphers	—	—	—	—	—	—	249	80	—	—	62	29
Communications equipment operators, n.e.c.	863	313	402	175	155	40	21 192	9 965	1 299	623	5 795	2 369
Mail and message distributing occupations	—	—	—	—	—	—	—	—	—	—	—	—
Postal clerks, except mail carriers	—	—	—	—	—	—	—	—	—	—	—	—
Mail carriers, except postal service	592	244	326	139	85	27	16 804	8 620	389	189	4 248	1 877
Mail clerks, except postal service	271	69	76	36	70	13	4 388	1 345	910	434	1 547	492
Messengers	684	451	1 110	445	495	230	78 000	36 174	601	321	22 910	9 958
Material recording, scheduling, and distributing clerks	—	—	—	—	—	—	—	—	—	—	—	—
Dispatchers	193	170	271	112	139	104	17 936	7 911	11	4	538	243
Production coordinators	90	47	182	28	84	15	6 669	3 015	21	150	7 196	3 131
Traffic, shipping, and receiving clerks	299	154	572	263	186	65	40 654	18 861	287	119	11 287	4 814
Stock and inventory clerks	—	—	—	—	—	—	—	—	—	—	—	—
Meter readers	23	17	15	15	10	7	2 458	597	15	8	649	243
Weights, measurers, and checkers	5	5	7	7	28	23	5 560	3 248	45	25	56	24
Samplers	74	58	28	7	—	—	—	—	—	—	1 291	776
Expeditors	—	—	—	—	—	—	—	—	—	—	—	—
Material recording, scheduling, and distributing clerks, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—
Adjusters and investigators	732	496	442	244	319	206	71 517	46 515	6	6	283	114
Insurance adjusters, examiners, and investigators	—	—	—	—	—	—	—	—	—	—	—	—
Investigators and adjusters, except insurance	477	335	337	195	270	177	56 470	35 305	413	249	7 572	4 343
Eligibility clerks, social welfare	14	14	26	15	7	7	10 189	8 370	50	43	1 710	1 258
Bill and account collectors	241	147	79	44	42	22	4 858	2 840	50	43	1 710	941
Miscellaneous administrative support occupations	13 685	11 937	5 006	3 907	2 444	1 890	398 248	314 677	10 374	8 436	117 275	92 085
General office clerks	7 131	6 198	2 391	1 982	1 198	925	239 943	193 876	6 994	5 966	78 285	62 819
Bank tellers	—	—	—	—	—	—	—	—	—	—	—	—
Proofreaders	648	438	77	64	40	48	951	742	222	157	333	242
Date-entry clerks	4 226	4 040	704	652	444	370	40 887	38 080	566	532	11 838	11 176
Statistical clerks	412	297	376	220	232	169	27 416	20 004	529	34	7 170	4 935
Teachers' aides	5	5	102	102	14	14	2 976	2 355	44	34	1 296	968
Administrative support occupations, n.e.c.	1 263	959	1 356	887	496	364	86 075	59 620	1 857	1 418	18 353	11 945

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

United States	Professional and related services—Con.				Public administration				General government, n.e.c.			
	Accounting, auditing, and bookkeeping services		Noncommercial educational and scientific research		Miscellaneous professional and related services		Total		Executive and legislative offices		Total	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Service occupations	1 185	668	4 495	2 005	1 363	724	1 141 732	184 410	4 427	1 312	135 654	46 276
Private household occupations	47	2	1 104	183	152	17	915 363	85 877	1 699	131	29 128	3 496
Supervisors, protective service occupations	5	—	99	11	—	—	72 290	2 003	57	—	1 180	126
Supervisors, firefighting and fire prevention occupations	5	—	28	—	—	—	19 125	71	33	—	223	—
Supervisors, police and detectives	—	—	71	11	—	—	50 785	1 697	24	—	687	79
Supervisors, guards	—	—	112	—	14	—	2 380	235	24	—	270	47
Firefighting and fire prevention occupations	16	—	16	—	8	—	188 863	1 799	60	—	3 629	68
Fire inspection and fire prevention occupations	—	—	96	—	6	—	9 071	452	12	—	435	54
Freighting occupations	—	—	—	—	—	—	179 792	1 347	48	—	3 194	14
Police and detectives	—	—	—	—	—	—	557 887	43 542	896	110	12 837	1 460
Police and detectives, public service	—	—	—	—	—	—	409 792	23 859	718	69	9 809	792
Sheriffs, bailiffs, and other law enforcement officers	—	—	—	—	—	—	61 482	7 615	178	41	1 635	271
Correctional institution officers	—	—	—	—	—	—	86 613	12 068	—	—	1 393	397
Guards	42	2	893	172	138	17	96 323	38 533	686	21	11 482	1 842
Crossing guards	—	—	—	—	—	—	41 649	31 434	21	—	829	561
Guards and police, except public service	42	2	884	172	132	17	45 145	4 816	615	7	8 670	889
Protective service occupations, n.e.c.	—	—	9	—	6	—	9 529	2 283	50	14	1 983	392
Service occupations, except protective and household	1 138	666	3 391	1 822	1 211	707	226 369	98 533	2 728	1 181	106 526	42 780
Food preparation and service occupations	77	70	370	227	144	127	32 599	21 874	289	233	11 645	9 096
Supervisors, food preparation and service occupations	11	—	23	15	—	—	2 569	1 038	14	—	11 505	292
Bartenders	—	—	15	—	—	—	753	410	—	—	151	72
Waiters and waitresses	32	25	21	21	14	12	2 356	1 840	6	6	696	510
Cooks, except short order	27	27	88	73	73	73	15 793	10 640	136	127	5 455	4 376
Short-order cooks	—	—	6	—	—	—	173	128	—	—	65	43
Food counter, fountain and related occupations	—	—	3	—	—	—	455	398	7	7	164	153
Kitchen workers, food preparation	7	7	63	57	5	5	1 092	779	21	21	435	331
Waiters' and waitresses' assistants	—	—	17	14	6	6	2 190	1 527	21	11	897	700
Miscellaneous food preparation occupations	—	—	134	79	37	31	7 218	5 114	84	47	3 277	2 619
Health service occupations	25	20	820	661	155	128	23 521	18 241	140	102	8 132	6 668
Dental assistants	—	—	7	—	—	—	1 112	1 049	—	—	226	207
Health aides, except nursing	5	—	163	131	56	37	4 102	2 359	73	43	1 146	775
Nursing aides, orderlies, and attendants	20	20	650	523	99	91	18 307	14 833	67	59	6 760	5 686
Cleaning and building service occupations, except household	931	482	1 533	418	554	197	134 712	33 547	1 821	617	74 269	17 987
Supervisors, cleaning and building service workers	—	—	211	44	15	9	5 329	638	79	—	2 984	394
Maid and housemen	153	124	163	107	130	87	12 055	8 419	200	186	5 392	3 369
Janitors and cleaners	778	358	1 134	267	409	101	115 154	23 940	1 503	431	64 762	13 805
Elevator operators	—	—	25	—	—	—	1 141	456	39	—	334	55
Pest control occupations	—	—	—	—	—	—	1 033	74	—	—	—	—
Personal service occupations	105	94	668	516	358	255	35 537	24 871	478	229	12 480	9 029
Supervisors, personal service occupations	—	—	—	—	—	—	288	92	6	—	86	26
Barbers	11	5	2	—	—	—	51	24	22	—	110	89
Attendants and cosmetologists	—	—	—	—	—	—	587	246	—	—	170	110
Attendants, amusement and recreation facilities	—	—	43	23	29	23	5 271	1 765	34	3	1 100	476
Guides	—	—	21	12	31	8	1 547	1 097	69	52	759	515
Ushers	7	7	18	15	10	10	759	477	11	—	267	150
Public transportation attendants	—	—	—	—	—	—	83	29	—	—	—	—
Baggage porters and bellhops	—	—	5	—	—	—	—	—	—	—	—	—
Waiters, except private household	5	—	94	77	32	12	10 623	8 656	139	68	3 807	2 873
Child care workers, except private household	27	27	393	312	41	29	11 112	8 782	38	38	4 327	3 371
Personal service occupations, n.e.c.	55	55	92	77	189	159	4 936	3 663	159	68	1 914	1 499
Farming, forestry, and fishing occupations	24	6	827	268	181	43	55 512	4 808	207	13	15 460	1 150
Farm operators and managers	—	—	—	—	—	—	—	—	—	—	—	—
Farm occupations, except managerial	—	—	13	—	—	—	214	31	—	—	44	9
Related agricultural occupations	24	6	779	254	165	36	52 961	4 447	180	13	14 604	1 065
Supervisors, related agricultural occupations	—	—	3	—	—	—	6 024	488	10	8	473	80
Groundskeepers and gardeners, except farm	18	—	230	35	125	16	45 203	3 546	170	5	13 650	880
Animal caretakers, except farm	6	6	546	216	40	20	1 576	405	—	—	421	105
Graders and sorters, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—
Inspectors, agricultural products	—	—	—	—	—	—	158	8	—	—	60	—
Local government	—	—	—	—	—	—	—	—	—	—	76 876	23 031
General government, n.e.c.	—	—	—	—	—	—	—	—	—	—	16 272	2 356
—	—	—	—	—	—	—	—	—	—	—	699	74
—	—	—	—	—	—	—	—	—	—	—	140	—
—	—	—	—	—	—	—	—	—	—	—	416	57
—	—	—	—	—	—	—	—	—	—	—	143	17
—	—	—	—	—	—	—	—	—	—	—	1 979	42
—	—	—	—	—	—	—	—	—	—	—	201	42
—	—	—	—	—	—	—	—	—	—	—	1 778	—
—	—	—	—	—	—	—	—	—	—	—	7 318	1 015
—	—	—	—	—	—	—	—	—	—	—	5 385	496
—	—	—	—	—	—	—	—	—	—	—	1 194	238
—	—	—	—	—	—	—	—	—	—	—	759	281
—	—	—	—	—	—	—	—	—	—	—	1 842	1 225
—	—	—	—	—	—	—	—	—	—	—	667	470
—	—	—	—	—	—	—	—	—	—	—	3 927	437
—	—	—	—	—	—	—	—	—	—	—	1 682	318
—	—	—	—	—	—	—	—	—	—	—	60 604	20 675
—	—	—	—	—	—	—	—	—	—	—	5 036	4 265
—	—	—	—	—	—	—	—	—	—	—	179	107
—	—	—	—	—	—	—	—	—	—	—	72	14
—	—	—	—	—	—	—	—	—	—	—	217	148
—	—	—	—	—	—	—	—	—	—	—	2 312	2 002
—	—	—	—	—	—	—	—	—	—	—	43	12
—	—	—	—	—	—	—	—	—	—	—	65	43
—	—	—	—	—	—	—	—	—	—	—	164	153
—	—	—	—	—	—	—	—	—	—	—	435	331
—	—	—	—	—	—	—	—	—	—	—	897	700
—	—	—	—	—	—	—	—	—	—	—	3 277	2 619
—	—	—	—	—	—	—	—	—	—	—	8 132	6 668
—	—	—	—	—	—	—	—	—	—	—	226	207
—	—	—	—	—	—	—	—	—	—	—	1 146	775
—	—	—	—	—	—	—	—	—	—	—	6 760	5 686
—	—	—	—	—	—	—	—	—	—	—	74 269	17 987
—	—	—	—	—	—	—	—	—	—	—	2 984	394
—	—	—	—	—	—	—	—	—	—	—	5 392	3 369
—	—	—	—	—	—	—	—	—	—	—	64 762	13 805
—	—	—	—	—	—	—	—	—	—	—	334	55
—	—	—	—	—	—	—	—	—	—	—	12 480	9 029
—	—	—	—	—	—	—	—	—	—	—	86	26
—	—	—	—	—	—	—	—	—	—	—	110	89
—	—	—	—	—	—	—	—	—	—	—	1 100	476
—	—	—	—	—	—	—	—	—	—	—	759	515
—	—	—	—	—	—	—	—	—	—	—	267	150
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	29	17
—	—	—	—	—	—	—	—	—	—	—	3 807	2 873
—	—	—	—	—	—	—	—	—	—	—	4 327	3 371
—	—	—	—	—	—	—	—	—	—	—	1 914	1 499
—	—	—	—	—	—	—	—	—	—	—	770	621
—	—	—	—	—	—	—	—	—	—	—	11 214	721
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	44	9
—	—	—	—	—	—	—	—	—	—	—	10 725	690
—	—	—	—	—	—	—	—	—	—	—	378	49
—	—	—	—	—	—	—	—	—	—	—	10 117	586
—	—	—	—	—	—	—	—	—	—	—	193	55
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	60	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

(Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.)

	Professional and related services—Con.				Public administration			
	Accounting, auditing, and bookkeeping services		Noncommercial educational and scientific research		Miscellaneous professional and related services		Total	
	Total	Female	Total	Female	Total	Female	Total	Female
Farming, forestry, and fishing occupations—Con.								
Forestry and logging occupations	—	—	—	—	—	—	—	—
Supervisors, forestry and logging workers	—	—	—	—	—	—	—	—
Forestry workers, except logging	—	—	—	—	—	—	—	—
Timber cutting and logging occupations	—	—	—	—	—	—	—	—
Fishers, hunters, and trappers	—	—	—	—	—	—	—	—
Captains and other officers, fishing vessels	—	—	—	—	—	—	—	—
Fishers	—	—	—	—	—	—	—	—
Hunters and trappers	—	—	—	—	—	—	—	—
Precision production, craft, and repair occupations	582	182	5 468	299	1 683	251	252 812	12 362
Mechanics and repairers	187	56	1 848	67	672	36	128 105	3 889
Supervisors, mechanics and repairers	6	—	204	7	33	—	18 407	18
Mechanics and repairers, except supervisors	181	56	1 644	60	639	36	119 698	3 751
Vehicle and mobile equipment mechanics and repairers	38	10	207	3	101	—	36 756	1 235
Automobile mechanics	48	—	90	—	18	—	27 322	359
Bus, truck, and stationary engine mechanics	—	—	—	—	43	—	19 827	7
Aircraft engine mechanics	—	—	88	3	8	—	19 888	760
Small engine repairers	—	—	—	—	8	—	1 028	—
Automobile body and related repairers	—	—	5	—	—	—	1 027	—
Aircraft mechanics, except engine	10	10	7	—	—	—	874	51
Heavy equipment mechanics	—	—	17	—	32	—	4 619	31
Farm equipment mechanics	—	—	—	—	—	—	161	5
Industrial machinery repairers	15	5	126	6	67	—	8 805	187
Machinery maintenance occupations	63	20	342	25	104	17	18 428	943
Electrical and electronic equipment repairers	—	—	—	—	—	—	—	—
Electronic repairers, communications and industrial equipment	5	5	267	25	48	—	12 930	563
Data processing equipment repairers	58	15	49	—	22	17	870	114
Household appliance and power tool repairers	—	—	18	—	—	—	400	13
Telephone line installers and repairers	—	—	—	—	—	—	287	13
Telephone installers and repairers	—	—	—	—	27	—	1 636	115
Miscellaneous electrical and electronic equipment repairers	—	—	8	—	7	—	2 305	125
Heating, air conditioning, and refrigeration mechanics	12	—	214	—	72	—	5 455	51
Miscellaneous mechanics and repairers	33	21	755	26	286	19	28 970	1 302
Camera, watch, and musical instrument repairers	—	—	53	19	6	—	511	102
Locksmiths and safe repairers	—	—	7	—	—	—	769	11
Office machine repairers	8	—	—	—	—	—	496	14
Mechanical controls and valve repairers	—	—	9	—	6	—	1 476	169
Elevator installers and repairers	—	—	27	—	—	—	472	21
Millwrights	—	—	37	—	19	—	293	14
Specified mechanics and repairers, n.e.c.	14	14	391	7	110	19	13 536	691
Not specified mechanics and repairers	11	7	231	—	145	—	11 417	280
Construction trades	90	9	1 333	30	370	70	71 236	2 533
Supervisors, construction occupations	29	3	235	1	27	—	8 368	208
Supervisors, brickmasons, stonemasons, and tile setters	—	—	—	—	—	—	15	—
Supervisors, carpenters and related workers	—	—	34	—	—	—	747	—
Supervisors, electricians and power transmission installers	—	—	90	—	5	—	1 530	481
Supervisors, painters, paperhangers, and plasterers	—	—	—	—	—	—	116	15
Supervisors, plumbers, pipefitters, and steamfitters	29	3	111	—	—	—	255	7
Supervisors, n.e.c.	—	—	—	—	22	—	5 705	182
Construction trades, except supervisors	61	6	1 098	29	343	70	62 868	2 325
Brickmasons and stonemasons	9	—	23	—	—	—	1 196	13
Tile setters, hard and soft	—	—	—	—	—	—	100	—
Carpet installers	—	—	—	—	—	—	78	—
Carpenters	40	5	216	17	80	—	16 613	521
Drywall installers	—	—	—	—	—	—	82	—
Electricians	—	—	504	7	54	6	17 840	681
Electrical power installers and repairers	—	—	—	—	7	—	690	14
Painters, construction and maintenance	—	—	112	5	119	32	10 757	648
Paperhangers	11	—	—	—	—	—	71	8
General government, n.e.c.								
Local government								
Total	667	18	407	18	145	22	2 790	48
Executive and legislative offices	27	—	—	—	—	—	—	—
Total	667	18	407	18	145	22	2 790	48
Female	54	—	26	—	—	—	119	—
Male	613	18	381	18	145	22	2 671	48
Supervisors, n.e.c.	—	—	—	—	—	—	—	—
Supervisors, brickmasons, stonemasons, and tile setters	—	—	—	—	—	—	—	—
Supervisors, carpenters and related workers	—	—	—	—	—	—	—	—
Supervisors, electricians and power transmission installers	—	—	—	—	—	—	—	—
Supervisors, painters, paperhangers, and plasterers	—	—	—	—	—	—	—	—
Supervisors, plumbers, pipefitters, and steamfitters	—	—	—	—	—	—	—	—
Supervisors, n.e.c.	—	—	—	—	—	—	—	—
Construction trades, except supervisors	—	—	—	—	—	—	—	—
Brickmasons and stonemasons	—	—	—	—	—	—	—	—
Tile setters, hard and soft	—	—	—	—	—	—	—	—
Carpet installers	—	—	—	—	—	—	—	—
Carpenters	—	—	—	—	—	—	—	—
Drywall installers	—	—	—	—	—	—	—	—
Electricians	—	—	—	—	—	—	—	—
Electrical power installers and repairers	—	—	—	—	—	—	—	—
Painters, construction and maintenance	—	—	—	—	—	—	—	—
Paperhangers	—	—	—	—	—	—	—	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

	Professional and related services—Con.				Public administration			
	Accounting, auditing, and bookkeeping services		Noncommercial educational and scientific research		Miscellaneous professional and related services		Total	
	Total	Female	Total	Female	Total	Female	Total	Female
United States								
Employed persons 16 years and over—Con.								
Precision production, craft, and repair occupations—Con.								
Construction trades—Con.								
Construction trades, except supervisors—Con.								
Plasterers	1	1	174	—	—	—	224	29
Plumbers, pipefitters, and steamfitters	—	—	7	—	—	—	9 685	128
Concrete and terrazzo finishers	—	—	—	—	—	—	248	19
Glaziers	—	—	—	—	32	—	159	19
Insulation workers	—	—	7	—	—	—	872	94
Paving, surfacing, and tamping equipment operators	—	—	—	—	5	—	61	—
Roofers	—	—	—	—	—	—	304	10
Sheetmetal duct installers	—	—	11	—	—	—	293	13
Structural metal workers	—	—	15	—	—	—	396	18
Drillers, earth	—	—	—	—	3	—	131	—
Construction trades, n.e.c.	—	—	18	—	9	—	3 068	110
Extractive occupations	—	—	40	—	—	—	110	12
Supervisors, extractive occupations	—	—	—	—	—	—	3	—
Drillers, oil well	—	—	28	—	—	—	260	19
Explosives workers	—	—	—	—	—	—	171	29
Mining machine operators	—	—	—	—	—	—	38	—
Mining occupations, n.e.c.	—	—	12	—	—	—	52 889	5 880
Precision production occupations	305	117	2 247	202	145	—	19 481	2 883
Supervisors, production occupations	188	81	651	127	52	—	16 408	771
Precision production occupations, except supervisors	25	8	779	20	117	—	85	16
Tool and die makers	8	8	40	—	—	—	7 829	283
Precision assemblers, metal	10	—	500	14	10	—	1 248	9
Boilermakers	—	—	23	—	—	—	126	7
Precision grinders, filers, and tool sharpeners	—	—	36	—	—	—	257	9
Pottermakers and model makers, metal	7	—	13	—	—	—	251	—
Lay-out workers	—	—	20	—	—	—	78	12
Precious stones and metals workers (jewelers)	—	—	10	—	5	—	195	51
Engravers, metal	—	—	119	—	16	—	5 724	376
Sheet metal workers	—	—	—	—	—	—	23	7
Miscellaneous precision metal workers	—	—	26	—	2	—	324	63
Precision woodworking occupations	—	—	17	—	—	—	60	18
Patternmakers and model makers, wood	—	—	9	—	—	—	153	45
Cabinet makers and bench carpenters	—	—	—	—	—	—	94	—
Furniture and wood finishers	—	—	—	—	—	—	17	—
Miscellaneous precision woodworkers	—	—	15	—	2	—	1 743	205
Precision textile, apparel, and furnishings machine workers	22	22	15	15	24	24	1 111	993
Dressmakers	—	—	—	—	—	—	233	135
Hatters	—	—	—	—	—	—	273	45
Upholsterers	—	—	—	—	—	—	22	7
Shoe repairers	—	—	—	—	—	—	54	25
Apparel and fabric patternmakers	—	—	—	—	—	—	1 621	302
Miscellaneous precision apparel and fabric workers	—	—	—	—	—	—	41	—
Precision workers, assorted materials	16	6	146	16	39	—	51	—
Hand molders and shapers, except jewelers	—	—	20	—	17	—	281	25
Patternmakers, lay-out workers, and cutters	—	—	—	—	8	—	476	96
Optical goods workers	—	—	54	—	31	—	190	95
Dental laboratory and medical appliance technicians	—	—	5	—	7	—	287	20
Bookbinders	16	6	35	11	—	—	1 624	277
Electrical and electronic equipment assemblers	—	—	—	—	—	—	199	44
Miscellaneous precision workers, n.e.c.	—	—	13	—	13	—	399	226
Precision food production occupations	8	—	6	—	—	—	26	7
Butchers and meat cutters	8	—	—	—	—	—	3 370	187
Food batchmakers	—	—	—	—	—	—	3 215	181
Precision inspectors, testers, and related workers	—	—	59	9	6	—	155	6
Inspectors, testers, and graders	—	—	59	9	6	—	—	—
Adjusters and calibrators	—	—	—	—	—	—	—	—
General government, n.e.c.								
Executive and legislative offices								
Total								
Local government								
Total								

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

United States	Professional and related services—Con				Public administration			
	Accounting, auditing, and bookkeeping services		Noncommercial educational and scientific research		Miscellaneous professional and related services		Total	
	Total	Female	Total	Female	Total	Female	Executive and legislative offices	General government, n.e.c.
	Total	Female	Total	Female	Total	Female	Total	Female
Precision production, craft, and repair occupations—Con.								
Plant and system operators—Con.								
Water and sewage treatment plant operators	46	—	558	6	136	15	8 318	192
Power plant operators	—	—	21	—	6	—	1 338	22
Stationary engineers	46	—	504	—	105	15	5 678	120
Miscellaneous plant and system operators	—	—	22	—	25	—	862	43
Operators, fabricators, and laborers	1 359	537	4 130	1 001	3 225	863	224 472	30 186
Machine operators, assemblers, and inspectors	920	447	2 013	572	1 301	531	68 090	13 040
Machine operators and tenders, except precision	864	397	1 213	350	837	333	43 664	9 084
Metalworking and plastic working machine operators	27	14	52	—	9	9	1 610	325
Metalworking and plastic working machine operators	14	14	11	—	3	3	470	115
Lathe and turning machine operators	—	—	17	—	—	—	146	16
Milling and planing machine operators	6	—	17	—	6	6	320	82
Punching and stamping press machine operators	—	—	—	—	—	—	15	—
Rolling machine operators	—	—	—	—	—	—	73	—
Drilling and boring machine operators	—	—	—	—	—	—	—	—
Grinding, abrading, buffing, and polishing machine operators	7	—	—	—	—	—	414	93
Forging machine operators	—	—	—	—	—	—	106	7
Numerical control machine operators	—	—	7	—	—	—	40	—
Miscellaneous metal, plastic, stone, and glass working machine operators	—	—	—	—	—	—	26	12
Fabricating machine operators, n.e.c.	27	10	23	—	6	6	251	29
Metal and plastic processing machine operators	16	10	—	—	12	—	1 511	211
Molding and casting machine operators	11	—	17	—	6	—	499	153
Metal plating machine operators	—	—	—	—	6	—	717	41
Heat treating equipment operators	—	—	—	—	6	—	171	17
Miscellaneous metal and plastic processing machine operators	—	—	—	—	—	—	124	—
Woodworking machine operators	—	—	12	—	6	—	1 207	91
Wood lathe, routing, and planing machine operators	—	—	—	—	—	—	14	—
Sawing machine operators	—	—	—	—	—	—	196	8
Shaping and joining machine operators	—	—	—	—	—	—	21	3
Nailing and tacking machine operators	—	—	—	—	—	—	—	—
Miscellaneous woodworking machine operators	—	—	12	—	6	—	976	80
Printing machine operators	471	137	267	84	163	57	7 413	1 838
Photoengravers and lithographers	391	85	207	39	111	29	6 122	1 314
Typesetters and compositors	8	—	17	—	11	—	313	65
Miscellaneous printing machine operators	45	22	43	36	41	28	538	261
Textile, apparel, and furnishings machine operators	27	22	—	—	—	—	440	198
Winding and twisting machine operators	13	13	63	47	19	13	2 084	424
Knitting, looping, tapping, and weaving machine operators	—	—	—	—	—	—	19	11
Textile cutting machine operators	—	—	—	—	—	—	396	378
Textile sewing machine operators	13	13	17	17	6	6	22	13
Shoe machine operators	—	—	10	10	—	—	11	6
Pressing machine operators	—	—	22	20	7	7	139	84
Laundering and dry cleaning machine operators	—	—	14	—	6	—	1 041	625
Miscellaneous textile machine operators	—	—	—	—	—	—	85	27
Machine operators, assorted materials	326	223	796	219	622	248	29 588	5 166
Cementing and gluing machine operators	16	16	23	5	8	8	206	34
Extruding and forming machine operators	7	7	17	—	15	9	290	139
Mixing and blending machine operators	—	—	—	—	—	—	2	—
Separating, filtering, and clarifying machine operators	—	—	—	—	9	9	566	306
Compressing and compacting machine operators	—	—	—	—	—	—	194	26
Painting and paint spraying machine operators	—	—	29	9	59	13	1 468	84

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

	Professional and related services—Con.						Public administration					
	Accounting, auditing, and bookkeeping services			Noncommercial educational and scientific research			Miscellaneous professional and related services			Executive and legislative offices		
	Total	Female		Total	Female		Total	Female		Total	Female	
United States												
Employed persons 16 years and over—Con.												
Operators, fabricators, and laborers—Con.												
Machine operators, assemblers, and inspectors—Con.												
Machine operators and tenders, except precision—Con.												
Machine operators, assorted materials—Con.												
Folding machine operators	—	—	8	—	—	8	—	—	8	—	—	—
Furnace, kiln, and oven operators, except food	—	—	75	—	—	75	—	—	93	—	—	—
Crushing and grinding machine operators	—	—	13	—	—	13	—	—	10	—	—	—
Slicing and cutting machine operators	—	—	13	—	—	13	—	—	8	—	—	—
Motion picture projectionists	15	—	6	—	—	6	—	—	—	—	—	—
Photographic process machine operators	130	101	149	79	21	95	50	29	5	80	316	163
Miscellaneous machine operators, n.e.c.	60	48	29	29	126	471	4	1207	66	12	397	832
Machine operators, not specified	98	51	286	83	206	1375	13	2064	152	50	874	297
Fabricators, assemblers, and hand working occupations	32	32	602	166	362	14907	151	2124	75	13	910	329
Welders and cutters	—	—	187	—	151	7257	211	103	33	175	103	33
Solders and brazers	—	—	15	—	10	152	45	152	33	19	19	—
Assemblers	27	27	359	138	135	5847	1	559	20	13	665	249
Hand cutting and trimming occupations	—	—	—	—	—	34	—	—	—	—	—	—
Hand molding, casting, and forming occupations	—	—	6	2	2	101	21	101	—	—	21	6
Hand painting, coating and decorating occupations	5	5	16	—	40	923	128	128	—	—	365	6
Hand engraving and printing occupations	—	—	3	—	—	20	—	—	—	—	62	31
Hand grinding and polishing occupations	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous hand working occupations	—	—	16	16	26	573	160	160	—	—	40	10
Production inspectors, testers, samplers, and weighers	24	18	198	56	102	9519	1832	1832	30	9	535	206
Production inspectors, checkers, and examiners	—	—	120	16	54	7401	1	77	13	2	408	175
Production testers	—	—	26	12	17	423	36	36	—	—	110	—
Production samplers and weighers	—	—	7	—	21	149	29	29	—	—	18	—
Graders and sorters, except agricultural	24	18	45	28	10	1546	596	596	17	7	384	7
Transportation and material moving occupations	250	49	956	169	465	76519	6727	6727	625	60	37700	2040
Motor vehicle operators	234	33	620	143	299	54154	5980	5980	501	58	28974	1892
Supervisors, motor vehicle operators	—	—	7	—	14	306	42	42	6	—	154	19
Truck drivers, heavy	66	7	305	43	191	34780	1532	1532	308	12	20363	500
Truck drivers, light	111	26	89	12	39	3778	560	560	39	21	1838	155
Driver-sales workers	19	7	98	52	14	273	66	66	—	—	204	176
Bus drivers	16	—	115	36	13	516	2416	2416	62	22	2874	823
Taxicab drivers and chauffeurs	—	—	—	—	28	7384	136	136	64	3	2843	259
Parking lot attendants	13	—	6	—	—	401	23	23	22	—	159	117
Motor transportation occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	6
Rail transportation occupations	—	—	18	—	—	387	57	57	—	—	85	10
Railroad conductors and yardmasters	—	—	—	—	—	64	17	17	—	—	10	10
Locomotive operating occupations	—	—	9	—	—	220	8	8	—	—	61	23
Railroad brake, signal, and switch operators	—	—	9	—	—	88	25	25	—	—	14	—
Rail vehicle operators, n.e.c.	—	—	—	—	—	15	7	7	—	—	—	—
Water transportation occupations	—	—	73	8	34	2198	112	112	2	2	505	15
Ship captains and mates, except fishing boats	—	—	27	8	23	513	10	10	—	—	119	7
Sailors and deckhands	—	—	46	8	5	574	21	21	2	—	128	8
Marine engineers	—	—	—	—	—	71	7	7	—	—	21	—
Bridge, lock, and lighthouse tenders	—	—	—	—	6	1040	74	74	—	—	237	—
Material moving equipment operators	16	16	245	18	132	19780	578	578	122	2	8136	123
Supervisors, material moving equipment operators	—	—	13	—	16	612	25	25	—	—	146	4
Operating engineers	—	—	35	—	21	5741	124	124	26	—	2555	32
Longshore equipment operators	—	—	—	—	—	14	—	—	—	—	9	—
Hoist and winch operators	—	—	18	8	8	119	—	—	—	—	67	—
Crane and tower operators	—	—	46	—	16	1380	—	—	—	—	465	—
Excavating and loading machine operators	9	9	—	—	18	1358	15	15	13	—	904	8
Grader, dozer, and scraper operators	—	—	—	—	—	396	17	17	58	—	806	7
Industrial truck and tractor equipment operators	—	—	82	—	—	7304	237	237	2	2	2485	64
Miscellaneous material moving equipment operators	7	7	51	10	44	1856	160	160	8	—	699	33

Public administration

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Construction	Helpers, equipment cleaners, helpers, and laborers
Shovelers, haulers, equipment cleaners, and laborers, n.e.c.	
Helpers, mechanics and repairers	
Helpers, construction and extractive occupations	
Helpers, construction trades	
Helpers, surveyor	
Helpers, extractive occupations	
Construction laborers	
Production helpers	
Freight, stock, and material handlers	
Garbage collectors	
Stevedores	
Stock handlers and baggers	
Machine feeders and operators	
Freight, stock, and material handlers, n.e.c.	
Garage and service station related occupations	
Vehicle washers and equipment cleaners	
Hand packers and packagers	
Laborers, except construction	

OCCUPATION BY INDUSTRY

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A]

United States

United States

Public administration—Con.											
Justice, public order, and safety				Local government		Public finance, taxation, and monetary policy		Administration of human resources programs		Administration of environmental quality and housing programs	
Total		Female	Total	Female	Total	Female	Total	Female	Total	Female	Total
Employed persons 16 years and over											
1 410 845	360 223	241 091	1 020 924	164 724	285 555	621 786	410 999	255 473	74 729	532 448	217 238
205 616	52 416	26 886	105 720	26 886	149 343	275 564	153 626	98 909	22 759	198 722	42 659
82 494	21 344	11 382	48 804	11 382	139 889	58 345	123 535	57 573	11 796	123 157	35 025
1 120	226	153	747	103	197	103	493	241	32	384	70
27 299	10 016	6 139	14 886	19 039	40 216	19 039	36 780	14 860	20 625	37 666	5 858
3 110	1 048	—	—	2 667	9 340	2 667	13 663	5 341	1 931	15 482	3 836
9 303	2 809	—	—	2 009	24 867	13 993	17 729	6 870	8 206	15 482	3 836
14 886	6 139	6 139	14 886	13 993	24 867	13 993	5 386	2 449	1 003	1 058	174
20 385	5 977	138	17 695	25	70	25	88	24	2 983	1 058	198
385	142	179	177	307	931	307	846	328	16	291	5
1 696	497	118	824	197	509	197	2 744	1 205	69	1 230	361
229	86	17	52	50	121	50	286	108	295	1 230	830
120	45	25	81	34	83	34	94	83	110	357	100
416	99	33	69	37	118	37	1 898	843	18	212	25
—	—	—	—	—	2 221	938	—	—	50	358	203
122	23	15	52	44	77	44	257	75	—	446	124
—	—	—	—	—	—	—	—	—	—	678	221
17	3	3	17	—	8	—	—	—	—	—	—
11 594	3 173	1 761	5 455	1 726	4 658	1 726	18 810	8 830	3 282	14 585	3 882
11 594	3 173	1 761	5 455	1 726	4 658	1 726	18 810	8 830	3 282	14 585	3 882
—	—	—	—	—	—	—	—	—	—	—	—
19 111	6 437	2 861	8 549	36 763	92 901	36 763	58 927	30 027	3 993	79 095	17 244
4 482	2 108	896	1 738	24 340	53 730	24 340	11 025	4 673	1 229	10 049	3 562
—	—	—	—	18	35	18	29	15	19	10	8
647	251	164	352	4 549	9 560	4 549	1 909	788	314	2 233	509
596	228	246	73	939	2 768	1 990	609	262	203	2 033	645
5 750	1 910	741	2 529	1 313	2 329	1 313	33 373	19 046	997	11 658	5 942
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
708	238	105	256	97	238	97	588	275	562	1 181	509
—	—	—	—	7	21	7	33	28	10	121	38
6	8	8	422	11	83	11	217	22	76	14 488	613
581	701	315	2 087	5 807	26 036	5 807	6 335	2 205	306	35 935	4 266
4 696	993	559	2 919	235	430	235	2 644	878	531	1 399	965
123 122	31 072	15 504	56 916	3 102	9 454	3 102	152 029	96 053	52 743	72 102	13 061
2 849	176	112	2 106	666	3 562	36	3 562	36	10 005	26 378	825
108	8	44	4	63	12	44	351	36	1 291	473	615
2 698	168	112	2 024	599	24	24	3 132	359	7 539	25 244	740
3	6	6	3	6	6	—	18	2	29	1 596	43
12	6	6	7	—	—	—	33	9	38	222	10
7	—	—	7	—	14	—	—	—	7	295	7
—	—	—	—	—	26	—	9	—	33	—	—
26	—	—	19	—	—	—	46	7	202	270	8
—	—	—	—	—	—	—	36	—	29	233	9
887	35	27	713	129	—	—	962	23	83	10 798	299
—	—	—	—	—	—	—	—	—	5	25	6
229	17	6	99	84	—	—	262	14	337	3 381	77
269	48	34	167	34	5	5	580	226	13	3 363	88
155	25	25	85	68	68	179	285	19	813	27	27
27	12	12	12	—	—	15	13	6	6	50	—
1 083	25	20	913	226	—	—	992	46	134	6 116	166
—	—	—	38	4	—	—	79	5	1 175	661	41
2 095	739	376	882	2 519	6 752	785	6 752	2 661	1 637	8 277	2 534
973	261	92	345	1 540	2 775	449	2 775	800	684	3 176	7 332
548	193	102	259	228	2 131	228	2 131	926	189	1 924	7 749
—	—	—	—	12	6	6	20	6	—	82	26
548	278	182	272	101	1 780	101	1 780	911	84	2 728	1 010
26	7	—	6	312	46	—	46	85	21	36	131
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—					

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Public administration—Con.																							
Justice, public order, and safety				Public finance, taxation, and monetary policy				Administration of human resources programs				Administration of environmental quality and housing programs				Administration of economic programs				National security and international affairs			
Total		Local government		Total		Female		Total		Female		Total		Female		Total		Female		Total		Female	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1 473	264	489	89	290	66	5 607	1 748	27 138	3 154	12 642	2 063	5 059	581										
19	—	—	—	6	—	222	41	1 332	—	947	56	1 630	92										
697	142	225	56	149	27	1 293	455	1 037	191	2 496	619	1 250	172										
21	—	8	—	13	7	111	44	2 165	98	640	58	135	23										
31	—	2	—	—	—	161	—	4 622	542	781	78	422	46										
32	21	—	—	7	7	161	—	1 308	276	639	125	482	90										
78	11	11	—	24	6	259	56	1 885	243	3 101	490	307	18										
119	30	56	5	6	6	1 611	546	5 074	714	1 459	375	409	89										
253	26	83	5	65	—	386	34	10 681	1 042	2 240	163	319	42										
223	34	104	23	13	13	1 403	540	214	48	339	99	85	9										
913	102	364	48	25	2	3 867	821	82	38	1 331	155	1 191	104										
589	87	307	44	7	—	2 985	742	28	20	269	44	882	78										
252	6	20	—	2	2	656	70	—	—	14	6	220	14										
69	9	34	4	—	—	194	8	39	11	1 032	89	57	12										
—	—	—	—	—	—	12	—	—	—	16	16	13	—										
—	—	—	—	—	—	13	—	—	—	—	—	—	—										
3	—	3	—	16	—	7	—	7	7	—	—	—	—										
8 287	2 326	5 899	997	156	142	16 986	15 327	297	217	842	646	1 339	985										
1 901	1 638	810	685	129	129	12 536	12 103	99	92	431	417	1 011	894										
124	35	7	—	4	—	410	83	4	4	97	29	63	22										
274	193	41	31	12	6	1 364	1 291	100	62	207	164	121	35										
878	248	238	85	15	7	2 497	1 768	75	58	60	17	75	34										
5 110	212	4 803	196	—	—	179	82	19	5	47	19	69	—										
Physicians' assistants	—	—	—	—	—	—	—	—	—	—	—	—	—										
Teachers	627	93	25	34	—	457	246	45	23	119	37	490	94										
Teachers, except postsecondary	3 771	839	661	152	43	3 767	2 341	2 444	1 867	1 227	304	3 662	804										
Teachers, prekindergarten and kindergarten	37	2	23	2	—	218	213	201	201	6	6	63	43										
Teachers, elementary and secondary school	—	—	—	—	—	—	—	—	—	—	—	—	—										
Teachers, special education	143	72	14	8	10	724	513	76	74	76	—	435	71										
Teachers, n.e.c.	3 591	765	624	142	83	8 825	6 115	2 167	1 592	1 145	298	3 164	690										
Counselors, educational and vocational	2 440	830	520	240	63	8 802	3 889	2 027	1 097	525	229	1 097	384										
Librarians, archivists, and curators	756	458	240	145	124	793	665	580	322	436	300	1 410	978										
Librarians	729	445	213	132	107	754	640	385	290	389	294	1 227	915										
Archivists and curators	27	13	13	17	17	39	25	195	32	47	6	183	63										
Social scientists and urban planners	3 468	930	1 483	460	642	4 874	2 114	2 444	591	4 937	1 074	3 587	756										
Economists	152	16	17	2	487	859	392	611	91	1 155	877	1 150	207										
Psychologists	1 884	514	588	234	53	3 126	1 339	72	14	175	59	570	128										
Sociologists	440	147	258	73	16	157	105	19	—	35	22	23	7										
Social scientists, n.e.c.	681	199	373	113	33	226	100	613	252	332	81	1 740	407										
Urban planners	311	138	177	54	24	506	178	1 129	234	240	35	104	7										
Social, recreation, and religious workers	35 635	11 595	17 175	6 698	939	85 783	61 180	2 676	1 456	1 972	792	1 304	559										
Social workers	34	11	16 861	6 640	913	85 064	60 766	1 052	675	1 789	751	898	410										
Recreation workers	337	461	8	8	—	469	315	1 595	763	121	35	187	103										
Clery	—	—	—	—	—	198	73	12	7	36	6	129	9										
Religious workers, n.e.c.	835	252	34	20	—	198	73	12	7	36	6	129	9										
Lawyers and judges	49	29	16	6	—	52	26	17	11	26	—	90	37										
Lawyers	57 431	11 273	25 211	5 430	2 934	5 830	2 042	1 614	506	8 008	1 912	2 010	423										
Judges	35 292	8 079	16 617	3 563	2 790	4 077	1 395	1 478	467	7 133	1 634	1 671	299										
Writers, artists, entertainers, and athletes	22 139	3 194	8 594	1 867	144	27	1 753	1 336	397	675	278	339	124										
Authors	3 377	1	1 793	732	969	491	2 619	3 579	1 682	5 408	2 190	9 522	3 365										
Technical writers	32	19	6	—	36	6	184	42	33	133	54	131	54										
Designers	191	94	47	29	109	644	426	257	147	715	303	1 147	345										
Musicians and composers	155	51	85	35	134	249	100	248	58	871	147	524	89										
Actors and directors	14	5	—	—	—	67	30	102	50	19	—	263	145										
Painters, sculptors, craft-artists, and artist printmakers	43	12	22	5	20	118	63	115	52	73	18	168	22										
Photographers	176	73	62	14	24	425	163	286	119	354	137	955	265										
Dancers	464	60	293	23	55	156	38	167	40	377	91	1 120	91										
Artists, performers, and related workers, n.e.c.	—	—	—	—	—	—	—	—	—	—	—	—	—										
Editors and reporters	176	43	99	24	26	80	44	92	14	118	11	7	7										
Public relations specialists	988	651	507	369	179	1 037	720	595	382	1 038	61	119	32										
Announcers	954	339	600	219	386	1 876	966	1 019	508	1 664	437	3 138	1 681										
Athletes	22	7	22	7	—	32	14	29	—	12	6	106	13										
	162	14	50	7	—	81	13	622	269	22	—	204	45										

Employed persons 16 years and over—Con.
 Managerial and professional specialty occupations—Con.
 Professional specialty occupations—Con.

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Public administration—Con.														
Justice, public order, and safety			Public finance, taxation, and monetary policy		Administration of human resources programs		Administration of environmental quality and housing programs		Administration of economic programs		National security and international affairs			
Local government			Federal government		Total		Female		Total		Female			
Total			Female		Total		Female		Total		Female			
Technical, sales, and administrative support occupations	296 939	217 825	189 350	141 076	100 710	125 829	281 583	222 501	69 874	41 542	278 692	168 284	259 370	148 121
Technicians and related support occupations	53 469	28 922	42 287	23 860	2 658	5 380	18 238	9 866	14 604	3 394	59 443	10 743	52 397	9 933
Health technicians and technicians	3 157	1 104	2 184	583	72	1 032	4 293	2 887	65	74	1 149	380	1	678
Clinical laboratory technologists and technicians	659	176	251	73	14	28	881	712	65	11	131	82	354	209
Dental hygienists	41	41	18	18	6	6	166	159	3	3	6	6	104	79
Health record technologists and technicians	104	64	17	5	16	16	151	128	9	9	18	9	108	77
Radiologic technicians	24	11	—	—	—	—	98	54	—	—	17	17	69	18
Licensed practical nurses	649	545	338	285	32	32	1 259	1 206	3	3	23	23	265	190
Health technicians and technicians, n.e.c.	1 680	267	1 560	202	21	21	1 738	628	252	48	954	253	424	105
Engineering and related technicians and technicians	2 410	520	1 324	274	479	1 242	3 065	1 409	7 010	1 263	17 825	2 735	20 491	2 308
Electrical and electronic technicians	1 047	269	477	150	189	300	681	319	914	152	7 207	586	12 383	1 142
Industrial engineering technicians	21	13	15	7	—	—	38	13	15	7	54	10	276	40
Mechanical engineering technicians	34	11	13	11	—	—	1 586	800	2 089	474	4 787	983	3 860	397
Engineering technicians, n.e.c.	708	103	392	21	19	63	418	135	2 383	537	3 725	971	3 232	603
Drafting occupations	426	109	310	78	256	839	342	142	1 593	93	1 986	177	574	89
Surveying and mapping technicians	174	15	117	7	15	40	15	—	—	—	—	—	—	—
Science technicians	208	70	123	33	77	150	1 530	774	2 380	418	2 750	825	1 293	218
Biological technicians	16	11	32	10	6	6	251	98	1 216	181	1 779	571	110	37
Chemical technicians	63	22	32	10	22	63	162	65	270	85	380	65	180	15
Science technicians, n.e.c.	129	48	80	23	55	11	1 177	476	894	152	591	189	1 003	166
Technicians, except health, engineering, and science	47 694	27 228	38 656	22 970	2 030	3 885	9 350	4 796	4 862	1 639	37 719	6 803	29 089	6 729
Airplane pilots and navigators	446	7	267	7	—	66	18	—	119	—	—	38	969	20
Air traffic controllers	1 137	572	893	482	32	147	234	134	253	43	24	594	1 173	228
Broadcast equipment operators	37 925	22 959	33 729	20 715	82	196	3 209	1 225	1 062	405	4 335	1 679	6 321	1 003
Computer programmers	1 540	612	608	245	803	1 946	3 209	1 225	1 062	405	4 335	1 679	6 321	1 003
Tool designers	32	15	19	8	55	55	98	27	37	15	108	40	154	40
Legal assistants	2 258	1 282	1 171	630	690	830	738	434	331	183	1 443	1 296	374	240
Technicians, n.e.c.	4 356	1 781	1 969	883	464	759	4 871	2 825	2 874	862	6 403	1 719	9 276	2 137
Sales occupations	2 203	1 292	1 507	912	2 271	4 082	2 588	1 603	3 029	1 209	5 005	2 554	5 833	4 152
Supervisors and proprietors, sales occupations	292	55	153	27	81	218	424	163	144	29	460	127	722	277
Salaried	292	55	153	27	81	218	424	163	144	29	460	127	722	277
Self-employed	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, finance and business services	191	53	138	42	334	1 654	417	113	1 538	306	933	55	282	106
Insurance sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Real estate sales occupations	152	37	105	32	319	1 639	415	113	1 538	306	901	55	198	65
Securities and financial services sales occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Advertising and related sales occupations	9	9	3	3	15	15	2	—	—	—	17	—	34	16
Sales occupations, other business services	30	7	30	7	—	—	—	—	—	—	15	—	50	25
Sales representatives, commodities, except retail	9	—	9	—	—	7	65	34	25	6	60	35	29	8
Sales engineers	—	—	—	—	—	—	8	—	—	—	—	—	—	—
Sales representatives, mining, manufacturing, and wholesale	9	—	9	—	—	7	57	34	25	6	60	35	29	8
Sales workers, retail and personal services	1 709	1 184	1 205	843	1 841	2 154	1 662	1 293	1 264	864	3 516	2 329	4 769	3 755
Sales workers, commodities	430	182	258	118	255	313	527	313	499	258	1 285	537	2 049	1 348
Sales counter clerks	—	—	—	—	7	12	5	—	25	17	25	12	47	32
Cashiers	1 044	864	734	594	1 548	1 785	969	872	711	569	2 102	1 725	2 636	2 350
Street and door-to-door sales workers	199	124	192	117	6	19	91	60	8	8	44	17	7	7
News vendors	36	14	21	14	25	25	70	48	21	12	60	38	50	18
Sales related occupations	2	—	2	—	15	49	20	—	58	4	36	8	11	6
Demonstrators, promoters and models, sales	—	—	—	—	—	—	5	—	12	—	8	—	—	—
Auctioneers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales support occupations, n.e.c.	2	—	2	—	15	49	15	—	46	—	21	8	5	6
Administrative support occupations, including clerical	241	267	145 556	116 304	95 781	116 367	260 757	211 032	52 241	36 939	214 244	154 987	201 140	134 036
Supervisors, administrative support occupations	29 037	9 148	15 039	5 304	6 017	12 695	26 729	15 121	10 139	1 934	30 645	11 554	30 149	7 236
Supervisors, general office	27 738	8 540	14 476	4 974	5 101	9 732	24 302	13 915	9 612	1 753	28 337	10 642	25 173	5 605
Supervisors, computer equipment operators	309	116	133	64	109	387	551	204	117	6	618	126	1 548	353
Supervisors, financial records processing	719	392	316	201	727	2 391	1 571	869	320	153	1 296	644	1 985	964
Chief communications operators	57	34	42	27	4	15	38	26	16	10	56	17	94	38
Supervisors, distribution, scheduling, and adjusting clerks	214	66	278	38	76	170	267	107	74	12	338	125	1 349	276
Computer equipment operators	3 317	2 310	2 012	1 431	3 226	4 437	4 551	3 065	972	498	3 915	2 264	7 778	3 843
Computer operators	3 183	2 200	1 931	1 362	3 098	4 273	4 268	2 902	948	498	3 684	2 116	7 462	3 691
Peripheral equipment operators	134	110	81	69	128	164	283	163	24	—	231	148	316	152

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

Public administration—Con												
Justice, public order, and safety			Public finance, taxation, and monetary policy			Administration of human resources programs		Administration of environmental quality and housing programs		Administration of economic programs		National security and international affairs
Total			Total			Total		Total		Total		Total
Total	Female	Male	Total	Female	Male	Total	Female	Total	Female	Total	Female	Female
94 781	90 073	52 958	26 395	25 932	78 608	80 461	20 619	21 058	20 619	50 630	49 586	64 542
57 436	56 730	32 205	14 809	14 668	46 720	47 354	14 076	14 259	14 076	31 792	31 358	41 496
13 547	10 217	5 396	1 370	1 304	3 800	3 912	666	6 666	6 666	2 893	2 725	2 545
23 798	23 126	15 357	10 216	9 960	28 088	29 195	5 884	6 133	5 884	15 965	15 503	20 301
5 047	3 860	2 561	2 212	1 878	8 995	10 510	1 559	2 064	1 559	43 678	30 174	3 148
771	431	476	357	243	2 192	2 938	443	669	443	37 820	25 561	558
—	—	—	—	—	—	—	—	—	—	—	—	—
268	92	138	66	54	182	256	39	57	39	697	222	894
2 826	2 613	1 622	1 154	1 089	5 788	6 246	942	1 113	942	3 328	2 976	1 303
1 182	724	923	635	492	833	1 070	135	225	135	1 833	1 395	393
7 923	6 140	3 303	6 117	5 045	9 316	11 840	1 047	1 523	1 047	6 827	5 422	10 284
29	14	8	26	26	7	7	6	23	6	16	14	22
167	131	47	198	159	281	357	19	176	19	177	165	220
308	180	134	235	205	476	621	83	176	83	177	165	195
1 051	806	502	459	408	1 649	1 969	479	1 288	479	1 452	1 285	1 285
1 154	91	73	78	72	225	282	87	128	87	119	70	3 094
5 060	4 136	2 738	4 580	3 761	5 584	7 348	465	465	360	3 538	2 792	4 002
1 154	782	466	541	414	1 094	1 256	233	233	123	1 007	796	3 308
9 861	8 438	5 131	13 664	10 973	10 103	12 699	3 333	3 333	2 730	8 930	6 586	15 023
7 897	6 861	4 722	11 458	9 110	7 613	9 328	2 607	2 607	2 480	5 793	4 290	10 631
1 456	1 248	738	1 337	1 163	1 412	1 669	54	562	480	2 040	1 761	3 219
132	109	85	249	232	209	238	54	54	54	178	129	182
265	134	86	166	85	644	1 204	27	97	27	763	300	860
111	86	51	454	383	225	260	13	13	—	156	106	131
835	661	543	608	451	437	701	77	131	77	446	268	519
183	135	108	88	62	151	287	41	80	41	141	74	240
23	7	23	22	22	6	22	3	3	3	25	5	23
629	519	412	498	367	280	392	33	48	33	280	189	256
2 347	1 940	1 385	1 900	1 721	1 165	1 165	227	227	154	860	789	1 740
2 189	1 886	1 344	1 900	1 721	1 153	1 153	227	227	154	860	789	1 740
10	10	6	—	—	12	12	—	—	—	11	7	28
148	44	103	—	—	—	—	—	—	—	21	7	17
1 786	780	606	2 963	1 929	1 247	2 978	421	421	207	3 184	1 763	2 766
—	—	—	—	—	—	—	—	—	—	—	—	—
1 369	683	406	2 822	1 908	1 172	2 673	340	340	166	2 814	1 671	2 149
417	97	200	141	21	305	305	81	81	41	370	92	954
7 289	3 793	5 080	2 180	1 437	2 677	4 641	2 004	2 004	704	6 634	2 587	31 741
2 627	1 609	1 452	611	6	17	17	84	84	58	163	57	14 697
1 381	901	947	626	420	937	1 410	711	711	198	1 527	806	2 274
1 381	901	947	626	420	937	1 410	711	711	198	1 527	806	2 274
757	470	374	185	86	181	392	82	148	82	749	234	4 884
1 538	406	706	690	358	676	1 615	898	898	268	2 535	975	2 807
—	—	—	—	—	—	—	—	—	—	—	—	21 804
471	97	152	38	22	25	98	34	60	34	948	111	179
40	15	23	14	6	5	5	—	—	—	64	27	57
428	272	193	595	521	771	967	49	88	49	504	285	1 642
—	—	—	—	—	—	—	—	—	—	—	—	—
47	23	29	25	18	72	137	15	15	15	144	92	109
1 402	845	758	3 371	2 000	32 562	46 495	1 320	1 320	599	5 867	2 775	1 692
—	—	—	—	—	—	—	—	—	—	—	—	—
779	445	239	1 200	1 243	25 277	37 534	1 066	1 066	429	5 471	2 506	1 515
132	127	112	48	48	6 794	8 092	90	90	77	122	80	813
491	273	407	1 203	709	561	869	164	164	93	274	180	47
—	—	—	—	—	—	—	—	—	—	—	—	40
77 642	59 623	40 203	41 535	36 721	47 794	57 987	6 811	9 049	6 811	52 628	41 219	31 758
30 887	25 069	15 855	23 005	20 280	32 094	38 591	4 599	5 627	4 599	36 533	29 045	20 021
—	—	—	—	—	—	—	—	—	—	—	—	—
63	63	13	44	39	79	79	7	18	7	146	125	45
4 187	3 829	2 237	7 715	7 325	6 660	7 044	695	761	695	4 441	4 039	4 335
5 552	4 524	3 405	1 704	1 342	3 149	4 010	714	714	449	4 028	2 992	3 824
301	242	111	44	29	703	801	69	75	69	276	211	139
36 652	25 896	18 582	9 023	7 706	5 109	7 462	992	1 854	992	7 204	4 787	3 670

Employed persons 16 years and over—Con.

Technical, sales, and administrative support occupations—Con
Administrative support occupations, including clerical—Con.

Secretaries, stenographers, and typists—

Secretaries—

Stenographers—

Typists—

Information clerks—

Interviewers—

Hotel clerks—

Transportation ticket and reservation agents—

Receptionists—

Information clerks, n.e.c.—

Records processing occupations, except financial—

Classified-ad clerks—

Correspondence clerks—

Order clerks—

Personnel clerks, except payroll and timekeeping—

Library clerks—

File clerks—

Records clerks—

Financial records processing occupations—

Bookkeepers, accounting, and auditing clerks—

Payroll and timekeeping clerks—

Billing clerks—

Cost and rate clerks—

Billing, posting, and calculating machine operators—

Duplicating, mail, and other office machine operators—

Duplicating machine operators—

Mail preparing and paper handling machine operators—

Office machine operators, n.e.c.—

Communications equipment operators—

Telephone operators—

Telegraphers—

Communications equipment operators, n.e.c.—

Mail and message distributing occupations—

Postal clerks, except mail carriers—

Mail carriers, postal service—

Messengers—

Material recording, scheduling, and distributing clerks—

Dispatchers—

Production coordinators—

Traffic, shipping, and receiving clerks—

Stock and inventory clerks—

Meter readers—

Weighers, measurers, and checkers—

Smelters—

Expeditors—

Material recording, scheduling, and distributing clerks, n.e.c.—

Adjusters and investigators—

Insurance adjusters, examiners, and investigators—

Investigators and adjusters, except insurance—

Eligibility clerks, social welfare—

Bill and account collectors—

Miscellaneous administrative support occupations—

General office clerks—

Bank tellers—

Proofreaders—

Data-entry keyers—

Statistical clerks—

Teachers' aides—

Administrative support occupations, n.e.c.—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see Introduction. For meaning of symbols, see Introduction. For definitions of terms, see appendix A.]

United States

Public administration—Con.

Justice, public order, and safety				Public finance, taxation, and monetary policy		Administration of human resources programs		Administration of environmental quality and housing programs		Administration of economic programs		National security and international affairs			
Total		Local government		Total		Female		Total		Female		Total		Female	
873 109	87 538	702 087	71 523	5 802	1 112	42 625	29 229	27 186	5 693	12 809	2 539	40 120	10 711		
846 968	78 662	685 136	65 808	4 475	449	3 304	517	8 035	967	5 467	551	16 287	1 104		
69 147	1 741	60 245	1 425	1 011	10	142	28	342	5	309	19	1 012	74		
18 408	66	17 779	56	10	—	15	9	192	5	40	9	237	34		
49 340	1 562	41 831	1 331	50	4	42	19	93	—	161	10	379	40		
1 399	113	169 638	38	80	6	85	19	57	—	108	10	396	38		
177 142	1 516	1 312	1 312	80	—	244	—	2 706	172	599	5	4 403	8		
6 500	250	5 511	1 177	10	—	47	—	1 670	135	154	5	243	8		
170 642	1 266	164 127	1 135	70	—	197	—	1 036	37	445	—	4 160	30		
543 025	41 835	405 595	31 220	85	36	60	12	64	19	158	16	762	54		
399 265	22 998	323 639	19 178	—	—	—	—	—	—	—	—	—	—		
59 030	7 220	53 159	6 491	85	36	60	12	64	19	158	16	272	—		
84 730	11 617	28 797	5 551	—	—	—	—	—	—	—	—	490	54		
57 654	33 570	49 658	31 851	4 209	403	2 858	477	4 923	771	4 401	511	10 110	938		
40 519	30 672	39 210	29 683	11	11	109	89	34	23	46	32	80	46		
11 814	1 703	5 364	1 020	4 177	377	2 568	332	3 329	293	4 205	435	9 767	780		
5 321	1 195	5 084	1 148	21	15	181	56	1 560	455	150	44	263	112		
26 141	8 876	16 951	5 715	1 327	663	39 321	28 712	19 151	4 726	7 342	1 988	23 833	9 607		
6 266	3 190	3 341	2 099	97	39	4 501	3 834	929	635	627	407	8 245	4 440		
1 261	293	257	93	17	7	256	208	47	23	50	20	419	181		
149	44	106	26	23	14	20	10	6	—	35	30	392	254		
101	69	54	42	23	14	151	130	200	164	57	38	1 122	909		
4 076	2 447	2 616	1 747	32	9	2 241	1 944	417	291	205	129	3 231	1 317		
18	18	18	18	—	—	5	5	3	3	6	6	76	53		
39	12	16	8	—	—	52	52	81	62	6	6	106	106		
95	64	46	36	—	—	209	180	20	11	60	46	252	126		
170	54	67	17	8	—	353	300	59	33	28	20	654	409		
357	189	161	112	17	9	1 214	1 005	96	48	180	112	1 993	1 085		
2 338	1 003	1 031	404	86	74	10 940	9 150	200	134	317	232	1 368	878		
112	104	15	9	36	36	1 428	428	—	—	21	21	289	253		
799	148	480	93	7	—	1 686	1 197	96	—	137	81	158	56		
1 427	751	536	302	43	31	8 826	7 525	104	52	137	130	921	569		
15 141	3 449	11 404	2 609	954	409	12 097	5 425	12 442	1 541	5 647	919	12 341	3 200		
655	56	366	53	20	—	262	66	436	19	209	27	684	76		
899	521	728	378	65	46	3 038	2 659	783	375	1 091	108	1 481	1 155		
13 391	2 842	10 144	2 156	843	343	8 705	2 671	11 089	1 142	5 097	770	9 770	1 956		
176	30	146	22	26	20	36	22	9	5	18	14	40	6		
20	—	20	—	—	—	56	7	125	—	—	—	366	7		
2 396	1 234	1 175	603	190	141	11 783	10 303	5 580	2 416	751	430	1 879	1 089		
27	10	15	9	7	—	71	16	1	2	1	—	22	4		
57	36	21	15	—	—	34	15	1	—	24	—	223	48		
95	36	68	24	—	—	30	30	16	7	15	—	82	74		
202	35	93	15	19	6	270	162	3 272	958	46	34	256	91		
96	40	51	17	6	—	127	54	498	341	49	27	143	68		
24	17	7	—	14	14	140	73	69	58	143	115	91	50		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
5	—	5	—	3	—	8	8	5	—	8	—	25	4		
428	238	341	174	21	10	5 571	5 047	436	275	158	104	63	41		
938	550	336	186	90	81	4 219	3 705	819	467	139	98	542	472		
521	308	238	171	30	30	1 313	1 163	453	308	134	52	412	235		
1 468	258	1 133	217	132	—	1 737	230	32 872	2 871	1 821	160	1 815	126		
—	—	—	—	—	—	—	—	—	—	—	—	—	—		
6	—	6	—	6	—	11	5	125	17	9	—	13	—		
1 243	194	957	170	112	—	1 578	203	31 819	2 711	1 703	148	1 722	113		
89	62	7	—	—	—	68	6	5 264	382	72	—	48	5		
730	41	512	30	106	—	1 409	179	26 241	2 247	1 323	111	1 574	83		
422	146	383	133	6	—	93	10	289	82	259	37	86	25		
—	—	—	—	—	—	—	8	—	—	—	—	—	—		
2	—	—	—	—	—	8	—	25	—	49	—	14	—		

Employed persons 16 years and over—Con.

Service occupations, except protective and household	26 141	8 876	16 951	5 715	1 327	663	39 321	28 712	19 151	4 726	1 988	23 833	9 607
Food preparation and service occupations	6 266	3 190	3 341	2 099	97	39	4 501	3 834	929	635	407	8 245	4 440
Supervisors, food preparation and service occupations	1 261	293	257	93	17	7	256	208	47	23	50	419	181
Barbers	149	44	106	26	23	14	20	10	6	—	35	30	392
Waiters and waitresses	101	69	54	42	23	14	151	130	200	164	57	38	1 122
Workers, except short order	4 076	2 447	2 616	1 747	32	9	2 241	1 944	417	291	205	129	3 231
Shoeks, except short order	18	18	18	18	—	—	5	5	3	3	6	6	76
Food-order clerks	39	12	16	8	—	—	52	52	81	62	6	106	106
Food preparation and related occupations	95	64	46	36	—	—	209	180	20	11	60	252	126
Kitchen workers, food preparation	170	54	67	17	8	—	353	300	59	33	28	654	409
Waiters and waitresses, assistants	357	189	161	112	17	9	1 214	1 005	96	48	180	1 993	1 085
Miscellaneous food preparation occupations	2 338	1 003	1 031	404	86	74	10 940	9 150	200	134	317	1 368	878
Dental assistants	112	104	15	9	36	36	1 428	428	—	—	21	21	289
Health aides, except nursing	799	148	480	93	7	—	1 686	1 197	96	—	137	81	158
Nursing aides, orderlies, and attendants	1 427	751	536	302	43	31	8 826	7 525	104	52	137	921	569
Cleaning and building service occupations, except household	15 141	3 449	11 404	2 609	954	409	12 097	5 425	12 442	1 541	5 647	12 341	3 200
Supervisors, cleaning and building service workers	655	56	366	53	20	—	262	66	436	19	209	27	684
Maid and housemen	899	521	728	378	65	46	3 038	2 659	783	375	1 091	1 481	1 155
Janitors and cleaners	13 391	2 842	10 144	2 156	843	343	8 705	2 671	11 089	1 142	5 097	9 770	1 956
Elevator operators	176	30	146	22	26	20	36	22	9	18	14	40	6
Pest control occupations	20	—	20	—	—	—	56	7	125	—	—	366	7
Personal service occupations	2 396	1 234	1 175	603	190	141	11 783	10 303	5 580	2 416	751	1 879	1 089
Supervisors, personal service occupations	27	10	15	9	7	—	71	16	1	2	—	42	6
Barbers	57	36	21	15	—	—	34	15	1	—	—	223	48
Hairstylists and cosmetologists	95	36	68	24	—	—	30	30	16	7	—	82	74
Attendants, amusement and recreation facilities	205	35	93	15	19	6	270	162	3 272	958	65	34	256
Guides	96	40	51	17	6	—	127	54	498	341	49	27	143
Ushers	24	17	7	—	14	14	140	73	69	58	143	91	50
Public transportation attendants	—	—	—	—	—	—	—	—	—	—	—	—	—
Baggage porters and bellhops	—	—	—	—	—	—	—	—	—	—	—	—	—
Welfare service aides	5	—	5	—	3	—	8	8	5	—	—	25	4
Child care workers, except private household	428	238	341	174	21	10	5 571	5 047	436	275	158	63	41
Personal service occupations, n.e.c.	938	550	336	186	90	81	4 219	3 705	819	467	139	98	542
Farming, forestry, and fishing occupations	521	308	238	171	30	30	1 313	1 163	453	308	134	52	472
Farm operators and managers	1 468	258	1 133	217	132	—	1 737	230	32 872	2 871	1 821	160	1 815
Farm occupations, except managerial	—	—	—	—	—	—	—	—	—	—	—	—	—
Related agricultural occupations	6	—	6	—	6	—	11	5	125	17	9	13	—
Supervisors, related agricultural occupations	1 243	194	957	170	112	—	1 578	203	31 819	2 711	1 703	148	1 722
Groundkeepers and gardeners, except farm	89	7	62	7	—	—	68	6	5 264	382	72	—	48
Animal caretakers, except farm	730	41	512	30	106	—	1 409	179	26 241	2 247	1 323	111	1 574
Graders and sorters, agricultural products	422	146	383	133	6	—	93	10	289	82	259	37	86
Inspectors, agricultural products	—	—	—	—	—	—	—	—	—	—	—	—	—
—	2	—	—	—	—	—	8	—	25	—	—	14	—

Employed persons 16 years and over—Con.

Service occupations														
Private household occupations														
Supervisors, protective service occupations														
Supervisors, firefighting and fire prevention occupations														
Supervisors, police and fire prevention occupations														
Supervisors, police and fire prevention occupations														
Supervisors, guards														
Firefighting and fire prevention occupations														
Fire inspection and fire prevention occupations														
Firefighting occupations														
Police and detectives														
Police and detectives, public service														
Sheriffs, bailiffs, and other law enforcement officers														
Correctional institution officers														
Guards														
Crossing guards														
Guards and police, except public service														
Protective service occupations, n.e.c.														
Service occupations, except protective and household														
Food preparation and service occupations														
Supervisors, food preparation and service occupations														
Bar tenders														
Waiters and waitresses														
Cooks, except short order														
Short-order cooks														
Food counter, fountain and related occupations														
Kitchen workers, food preparation														
Waiters and waitresses, assistants														
Miscellaneous food preparation occupations														
Health service occupations														
Dental assistants														
Health aides, except nursing														
Nursing aides, orderlies, and attendants														
Cleaning and building service occupations, except household														
Supervisors, cleaning and building service workers														
Maid and housemen														
Janitors and cleaners														
Janitor operators														
Pest control occupations														
Personal service occupations														
Supervisors, personal service occupations														
Barbers														
Hairdressers and cosmetologists														
Attendants, amusement and recreation facilities														
Guides														
Ushers														
Public transportation attendants														
Baggage porters and bellhops														
Welfare service aides														
Child care workers, except private household														
Personal service occupations, n.e.c.														
Forming, forestry, and fishing occupations														
Farm operators and managers														
Farm occupations, except managerial														
Related agricultural occupations														
Supervisors, related agricultural occupations														
Groundskeepers and gardeners, except farm														
Animal caretakers, except farm														
Graders and sowers, agricultural products														
Inspectors, agricultural products														

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

	Public administration—Con.									
	Justice, public order, and safety		Public finance, taxation, and monetary policy		Administration of human resources programs		Administration of environmental quality and housing programs		Administration of economic programs	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States										
Employed persons 16 years and over—Con.										
Farming, forestry, and fishing occupations—										
Forestry and logging occupations—	68	24	46	14	—	—	656	124	74	12
Supervisors, forestry and logging workers—	—	—	—	—	—	—	69	—	2	—
Forestry workers, except logging—	41	14	41	14	—	—	372	82	26	12
Timber cutting and logging occupations—	27	10	5	—	—	—	215	42	46	—
Fishers, hunters, and trappers—	151	40	124	33	—	—	272	19	35	—
Captains and other officers, fishing vessels—	3	—	—	—	—	—	25	—	—	—
Fishers—	130	33	124	33	—	—	119	12	8	—
Hunters and trappers—	18	7	—	—	—	—	128	7	27	—
Precision production, craft, and repair occupations—	19 431	767	12 169	494	—	—	12 266	545	18 835	690
Mechanics and repairers—	8 744	145	6 384	125	214	406	4 378	49	8 890	152
Supervisors, mechanics and repairers—	638	19	384	13	45	85	335	6	586	20
Mechanics and repairers, except supervisors—	8 106	126	5 796	112	43	85	4 043	43	8 304	132
Vehicle and mobile equipment mechanics and repairers—	4 108	3	3 148	—	183	26	1 444	26	3 564	42
Automobile mechanics—	3 373	—	2 509	—	115	6	995	—	1 939	23
Bus, truck, and stationary engine mechanics—	271	—	252	—	9	—	103	—	237	—
Aircraft engine mechanics—	146	—	113	—	33	13	52	—	820	19
Small engine repairers—	48	—	43	—	15	—	98	—	6	—
Automobile body and related repairers—	96	—	80	—	19	—	33	—	73	—
Aircraft mechanics, except engine—	7	—	—	—	7	—	—	—	31	—
Heavy equipment mechanics—	106	—	96	—	25	—	151	—	438	—
Farm equipment mechanics—	61	—	55	—	—	—	12	—	20	—
Industrial machinery repairers—	744	—	422	—	36	—	886	13	754	24
Machinery maintenance occupations—	38	—	38	—	7	—	34	—	47	—
Electrical and electronic equipment repairers—	1 124	59	625	45	76	41	282	19	1 619	19
Electronic repairers, communications and industrial equipment—	893	53	445	40	6	9	172	15	1 207	17
Household appliance and power tool repairers—	24	1	7	—	7	—	18	—	147	—
Telephone line installers and repairers—	17	—	17	—	13	6	9	—	26	—
Telephone installers and repairers—	169	5	129	5	—	12	—	—	23	—
Miscellaneous electrical and electronic equipment repairers—	7	—	5	—	—	—	68	—	164	—
Heating, air conditioning, and refrigeration mechanics—	154	—	66	—	—	—	15	4	52	2
Miscellaneous mechanics and repairers—	1 938	67	1 497	67	26	113	86	—	143	7
Camera, watch, and musical instrument repairers—	22	9	22	9	135	18	1 311	11	2 077	40
Locksmiths and safe repairers—	165	—	30	—	—	1	—	—	26	—
Office machine repairers—	7	—	—	—	—	35	—	—	59	2
Mechanical controls and valve repairers—	133	27	129	27	8	—	9	—	7	—
Elevator installers and repairers—	30	—	30	—	—	—	—	—	226	24
Millwrights—	1 035	18	846	18	4	10	11	—	18	6
Specified mechanics and repairers, n.e.c.—	546	13	440	13	3	5	492	1	806	—
Not specified mechanics and repairers—	—	—	—	—	89	296	769	10	923	8
Construction trades—	5 021	64	3 121	60	228	285	6 037	284	5 485	103
Supervisors, construction occupations—	1 008	9	326	9	27	39	860	31	1 130	19
Supervisors, brickmasons, stonemasons, and tile setters—	43	—	—	—	—	—	—	—	—	—
Supervisors, carpenters and related workers—	196	—	2	—	—	39	—	—	60	—
Supervisors, electricians and power transmission installers—	47	—	46	—	—	20	—	—	150	—
Supervisors, painters, paperhangers, and plasterers—	692	9	271	9	—	8	15	15	632	—
Supervisors, plumbers, pipefitters, and steamfitters—	—	—	—	—	—	—	—	—	—	—
Supervisors, n.e.c.—	—	—	—	—	—	39	733	16	16	19
Construction trades, except supervisors—	4 013	55	2 795	51	18	246	5 157	253	4 355	84
Brickmasons and stonemasons—	72	—	28	—	—	98	136	11	30	—
Tile setters, hard and soft—	6	—	—	—	—	—	11	—	6	—
Carpet installers—	670	16	385	14	—	14	—	—	—	—
Drywall installers—	—	—	—	—	2	—	—	—	—	—
Electricians—	1 748	5	1 417	5	2	77	2 159	81	671	14
Electrical power installers and repairers—	49	—	—	—	9	5	537	10	—	—
Painters, construction and maintenance—	424	15	299	13	—	385	14	—	1 502	17
Paperhangers—	18	—	18	—	—	630	1 031	83	545	11
					41	124	2	—	18	—

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Public administration—Con.											
Justice, public order, and safety				Public finance, taxation, and monetary policy				Administration of human resources programs			
Local government											
Total											
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
United States											
Employed persons 16 years and over—Con.											
Precision production, craft, and repair occupations—Con.											
Construction trades—Con.											
Plasterers	13	13	13	38	7	19	—	25	—	47	8
Plumbers, pipefitters, and steamfitters	606	221	—	—	—	284	—	806	21	357	50
Concrete and masonry finishers	17	17	—	—	—	6	—	19	—	16	—
Glaziers	6	6	6	—	—	20	—	52	5	25	—
Insulation workers	3	—	—	—	—	132	27	16	—	31	—
Paving, surfacing, and tamping equipment operators	2	2	—	—	—	11	—	—	—	4	—
Roofters	6	7	—	—	—	10	—	19	—	7	—
Sheetmetal duct installers	6	—	—	—	—	2	—	37	—	52	—
Structural metal workers	366	327	—	14	—	64	—	271	52	981	4
Millwrights	43	32	—	6	—	22	—	25	5	88	25
Construction trades, n.e.c.	11	8	—	6	—	5	—	9	—	46	13
Supervisors, extractive occupations	8	—	—	—	—	—	—	—	—	—	—
Miners, oil well	12	12	—	—	—	14	—	4	—	19	—
Explosives workers	11	—	—	—	—	—	—	—	—	21	—
Mining machine operators	12	12	—	—	—	3	—	12	—	2	—
Mining occupations, n.e.c.	—	—	—	—	—	—	—	—	—	—	—
Precision production occupations	5 623	2 836	309	529	151	2 676	1 029	1 846	207	4 372	1 569
Supervisors, production occupations	3 418	1 753	229	423	142	1 538	633	892	153	1 927	563
Precision metalworking occupations	332	180	9	68	34	275	34	237	13	713	399
Tool and die makers	6	6	—	17	—	11	—	—	—	6	—
Precision assemblers, metal	—	—	—	—	—	—	—	—	—	—	—
Machinists	236	141	9	39	2	113	21	154	6	459	16
Boilermakers	30	—	—	—	—	27	—	25	—	37	—
Precision grinders, filers, and tool sharpeners	—	—	—	7	7	—	—	—	—	5	—
Patternmakers and model makers, metal	6	6	—	—	—	32	—	—	—	33	—
Lay-out workers	—	—	—	—	—	7	—	5	—	21	—
Precious stones and metals workers (jewelers)	—	—	—	5	—	—	—	31	7	6	—
Engravers, metal	12	—	—	—	—	18	—	22	—	119	—
Sheet metal workers	42	27	—	—	—	67	6	—	—	7	—
Miscellaneous precision metal workers	—	—	—	—	—	—	—	—	—	—	—
Precision woodworking occupations	13	6	—	—	—	17	5	13	—	25	—
Patternmakers and model makers, wood	6	6	—	—	—	—	—	13	—	—	—
Cabinet makers and bench carpenters	7	—	—	—	—	6	—	—	—	25	—
Furniture and wood finishers	—	—	—	—	—	11	5	—	—	—	—
Miscellaneous precision woodworkers	—	—	—	—	—	—	—	—	—	—	—
Precision textile, apparel, and furnishings machine workers	170	102	63	186	164	186	164	10	6	55	422
Dressmakers	107	82	55	154	153	154	153	8	6	41	337
Tailors	11	6	—	—	—	—	—	—	—	14	66
Upholsters	31	14	8	8	6	8	6	—	—	19	19
Shoe repairers	10	—	—	—	—	11	5	—	—	—	—
Apparel and fabric patternmakers	—	—	—	—	—	8	—	2	—	—	—
Miscellaneous precision apparel and fabric workers	11	4	—	—	—	—	—	—	—	—	—
Precision workers, assorted materials	54	14	—	6	—	135	56	16	—	61	151
Hand molders and shapers, except jewelers	—	—	—	—	—	6	—	—	—	—	—
Patternmakers, lay-out workers, and cutters	—	—	—	—	—	—	—	4	—	3	—
Optical goods workers	46	6	—	—	—	6	—	—	—	—	—
Dental laboratory and medical appliance technicians	—	—	—	6	—	70	15	7	—	21	20
Bookbinders	—	—	—	—	—	11	5	—	—	8	52
Electrical and electronic equipment assemblers	—	—	—	—	—	30	30	—	—	17	6
Miscellaneous precision workers, n.e.c.	8	8	—	—	—	12	6	5	—	18	59
Precision food production occupations	176	42	2	8	—	109	94	9	—	65	45
Butchers and meat cutters	116	22	—	—	—	26	17	9	—	46	686
Bakers	53	20	2	8	—	83	77	—	—	7	13
Food batchmakers	7	—	—	—	—	—	—	—	—	—	32
Precision inspectors, testers, and related workers	86	29	6	2	—	31	13	16	—	19	—
Inspectors, testers, and graders	80	29	—	—	—	—	—	—	—	832	1 446
Adjusters and calibrators	6	6	—	2	—	31	13	16	—	740	1 428
										92	18

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Public administration—Con											
Justice, public order, and safety			Public finance, taxation, and monetary policy			Administration of human resources programs			Administration of environmental quality and housing programs		
Local government											
Total	Female	Total	Total	Female	Total	Total	Female	Total	Total	Female	Total
1 374	8	710	22	—	385	30	—	653	35	31	1 548
77	—	17	—	—	30	6	—	229	7	—	455
84	—	—	—	—	37	—	—	9	—	—	112
907	2	405	22	—	286	19	—	341	10	31	854
306	6	288	—	—	12	5	—	74	11	—	127
14 282	1 419	10 465	3 183	1 241	12 377	4 007	1 319	14 346	1 319	2 906	54 362
4 887	700	3 335	1 949	1 000	3 897	1 524	434	2 965	434	1 523	21 329
3 998	614	2 795	1 478	725	2 646	1 103	304	2 133	304	784	12 513
124	11	83	54	34	73	57	6	73	6	18	611
—	—	—	—	—	—	—	—	—	—	—	—
78	11	51	7	7	6	6	—	20	—	5	215
7	—	—	—	—	—	—	—	13	6	—	74
—	—	—	27	21	46	46	—	7	—	—	25
—	—	—	—	—	9	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	35
20	—	20	14	6	12	5	—	10	—	13	185
6	—	6	6	—	—	—	—	23	—	—	45
13	—	6	—	—	—	—	—	—	—	—	27
—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
27	5	27	—	—	—	—	—	—	—	—	5
37	11	34	47	9	10	—	—	6	6	6	129
31	5	28	39	9	4	—	—	6	6	9	954
—	—	—	—	—	6	—	—	—	—	—	135
6	6	6	8	—	—	—	—	—	—	—	617
—	—	—	—	—	—	—	—	—	—	—	117
—	—	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—	—	85
—	—	—	5	—	91	17	—	66	3	3	640
—	—	—	—	—	—	—	—	7	—	—	—
—	—	—	5	—	13	—	—	55	3	3	7
—	—	—	—	—	9	3	—	—	—	—	4
—	—	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	69	14	—	—	—	—	629
408	100	209	393	129	719	222	49	227	49	194	1 473
322	60	175	314	89	689	157	52	174	52	128	1 155
40	17	17	39	12	5	—	—	36	—	26	189
25	17	17	14	7	77	51	12	12	12	13	144
220	91	76	36	22	28	14	—	5	—	29	102
6	6	6	20	13	293	238	—	31	12	36	58
—	—	—	—	—	—	—	—	—	—	—	325
6	6	6	—	—	—	—	—	—	—	—	6
6	6	8	—	—	41	41	—	—	—	—	—
17	13	—	13	13	46	31	—	—	—	—	5
—	—	—	5	—	3	3	—	—	—	—	105
166	58	51	2	—	196	156	—	17	6	22	79
17	—	11	—	—	7	7	—	14	6	—	20
3 175	396	2 366	959	540	1 460	569	208	1 730	208	518	8 176
10	7	10	—	—	—	—	—	6	—	—	25
7	7	—	51	9	31	31	7	7	7	12	85
2	—	2	—	—	—	—	—	—	—	—	20
41	19	23	47	27	107	66	16	16	16	27	117
3	6	15	19	17	5	5	2	23	2	26	46
21	2	31	8	—	22	—	—	98	17	8	20
48	—	—	—	—	—	—	—	—	—	—	659
—	—	—	—	—	—	—	—	—	—	—	16
—	—	—	—	—	—	—	—	—	—	—	7

Employed persons 16 years and over—Con.

Precision production, craft, and repair occupations—Con.
Precision production occupations—Con.
Plant and system operators
Water and sewage treatment plant operators
Power plant operators
Stationary engineers
Miscellaneous plant and system operators
Operators, fabricators, and laborers
Machine operators, assemblers, and inspectors
Machine operators and tenders, except precision
Metalworking and plastic working machine operators
Lathe and turning machine set-up operators
Lathe and turning machine operators
Milling and planing machine operators
Punching and stamping press machine operators
Rolling machine operators
Drilling and boring machine operators
Grinding, abrading, buffing, and polishing machine operators
Forging machine operators
Numerical control machine operators
Miscellaneous metal, plastic, stone, and glass working machine operators
Fabricating machine operators, n.e.c.
Metal and plastic processing machine operators
Molding and casting machine operators
Metal planing machine operators
Heat treating equipment operators
Miscellaneous metal and plastic processing machine operators
Woodworking machine operators
Wood lathe, routing, and planing machine operators
Sawing machine operators
Shaping and joining machine operators
Nailing and latching machine operators
Miscellaneous woodworking machine operators
Printing machine operators
Printing machine operators
Photoengravers and lithographers
Typesetters and compositors
Miscellaneous printing machine operators
Textile, apparel, and furnishings machine operators
Knitting and twisting machine operators
Knitting, looping, tying, and weaving machine operators
Textile cutting machine operators
Textile sewing machine operators
Shoe machine operators
Pressing machine operators
Laundering and dry cleaning machine operators
Miscellaneous textile machine operators
Machine operators, assorted materials
Cementing and gluing machine operators
Packaging and filling machine operators
Extruding and forming machine operators
Mixing and blending machine operators
Separating, filtering, and clarifying machine operators
Compressing and compacting machine operators
Painting and painting machine operators
Roasting and baking machine operators, food
Washing, cleaning, and picking machine operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

Data are estimates based on a sample; see Introduction. For meaning of symbols, see appendix A]

United States

United States

Public administration—Con.

Justice, public order, and safety

Local government

Total

Female

Total

Female

Public finance, taxation, and monetary policy

Total

Female

Administration of human resources programs

Total

Female

Administration of environmental quality and housing programs

Total

Female

Administration of economic programs

Total

Female

National security and international affairs

Total

Female

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.

Machine operators, assemblers, and inspectors—Con.

Machine operators and tenders, except precision—Con.

Machine operators, assorted materials—Con.

Rolling machine operators

Electric, blower, and open operators

Cutlery and grinding machine operators

Slicing and cutting machine operators

Motion picture projectionists

Photographic process machine operators

Miscellaneous machine operators, n.e.c.

Machine operators, not specified

Fabricators, assemblers, and hand working occupations

Welders and cutters

Solderers and brazers

Assemblers

Hand cutting and trimming occupations

Hand molding, casting, and forming occupations

Hand painting, coating and decorating occupations

Hand engraving and printing occupations

Hand grinding and polishing occupations

Miscellaneous hand working occupations

Production inspectors, testers, samplers, and weighers

Production inspectors, checkers, and examiners

Production testers

Production samplers and weighers

Graders and sorters, except agricultural

Transportation and material moving occupations

Motor vehicle operators

Supervisors, motor vehicle operators

Truck drivers, heavy

Truck drivers, light

Driver-sales workers

Bus drivers

Taxicab drivers and chauffeurs

Parking lot attendants

Motor transportation occupations, n.e.c.

Rail transportation occupations

Railroad conductors and yardmasters

Locomotive operating occupations

Railroad brake, signal, and switch operators

Rail vehicle operators, n.e.c.

Water transportation occupations

Ship captains and mates, except fishing boats

Salvors and deckhands

Marine engineers

Bridge, lock, and lighthouse tenders

Material moving equipment operators

Supervisors, material moving equipment operators

Operating engineers

Longshore equipment operators

Hoist and winch operators

Crane and tower operators

Excavating and loading machine operators

Grader, dozer, and scraper operators

Industrial truck and tractor equipment operators

Miscellaneous material moving equipment operators

Table 4. Detailed Occupation of Employed Persons by Detailed Industry and Sex: 1980—Con.

[Data are estimates based on a sample; see introduction. For meaning of symbols, see introduction. For definitions of terms, see appendix A.]

Public administration—Con.													
Justice, public order, and safety				Public finance, taxation, and monetary policy		Administration of human resources programs		Administration of environmental quality and housing programs		Administration of economic programs		National security and international affairs	
Total		Local government		Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Employed persons 16 years and over—Con.													
3 404	430	2 372	234	785	194	4 429	1 079	6 208	610	5 589	653	19 424	2 908
Operators, fabricators, and laborers—Con.													
Handlers, equipment cleaners, helpers, and laborers													
Supervisors, handlers, equipment cleaners, and laborers, n e c	15	36	2	2	—	109	62	61	12	75	21	230	26
Helpers, mechanics and repairers	2	35	2	7	—	5	—	32	—	55	7	321	52
Helpers, construction and extractive occupations	49	23	2	2	—	137	12	346	24	168	7	333	61
Helpers, construction trades	45	19	—	2	—	109	6	121	11	141	—	326	54
Helpers, surveyor	4	4	—	—	—	28	6	225	13	141	7	7	7
Helpers, extractive occupations	—	—	—	—	—	—	—	—	—	—	—	—	—
Construction laborers	369	289	—	14	—	362	19	786	36	897	42	528	25
Production helpers	106	62	11	16	—	161	56	75	9	227	45	538	117
Freight, stock, and material handlers	282	31	144	20	—	322	29	314	24	487	44	2 341	315
Garbage collectors	135	94	19	22	—	57	—	161	14	30	—	71	—
Steveldores	4	—	—	6	—	3	—	—	—	18	—	67	—
Stock handlers and baggers	58	12	12	35	7	74	—	13	—	90	11	849	202
Machine feeders and officers	3	—	—	—	—	43	26	23	8	20	9	16	—
Freight, stock, and material handlers, n e c	82	61	—	81	13	145	3	117	2	329	24	1 338	113
Garage and service station related occupations	248	219	12	16	—	18	2	37	—	146	—	206	12
Vehicle washers and equipment cleaners	261	186	20	29	—	47	—	81	2	67	18	554	33
Hand packers and packagers	83	32	22	37	5	126	72	81	27	207	74	3 313	835
Laborers, except construction	1 851	245	152	518	169	3 142	827	4 395	476	3 260	395	11 060	1 432

Employed persons 16 years and over—Con.

Operators, fabricators, and laborers—Con.
 Handlers, equipment cleaners, helpers, and laborers
 Supervisors, handlers, equipment cleaners, and laborers,
 n e c
 Helpers, mechanics and repairers
 Helpers, construction and extractive occupations
 Helpers, construction trades
 Helpers, surveyor
 Helpers, extractive occupations
 Construction laborers
 Production helpers
 Freight, stock, and material handlers
 Garbage collectors
 Stevedores
 Stock handlers and baggers
 Machine feeders and offbearers
 Freight, stock, and material handlers, n e c
 Garage and service station related occupations
 Vehicle washers and equipment cleaners
 Hand packers and packagers
 Laborers, except construction

Appendix A.—Definitions and Explanations of Subject Characteristics

GENERAL	A-1
INDUSTRY AND OCCUPATION AND CLASS OF WORKER	A-1
Introduction	A-1
Occupation Classification System	A-1
Industry Classification System . .	A-2
Definition	A-2
Relation of Some Industry Groups to Similar Occupa- tions or Class of Worker . . .	A-2
Class of Worker	A-2
Private Wage and Salary Workers	A-2
Government Workers	A-2
Self-Employed Workers	A-2
Unpaid Family Workers	A-2
Sample Edit and Allocation Procedures	A-2
Comparability With Earlier Census Data	A-3
Comparability With Other Data . .	A-3
Related Reports	A-3
Current Population Survey	A-3
SEX	A-3
RACE	A-3
Comparability Between Sample and 100-Percent Data for Racial Groups	A-4
Comparability With 1970 Census Data	A-4
AGE	A-5
SPANISH/HISPANIC ORIGIN	A-5
Limitations of the Data	A-5
Comparability With 1970 Census Data	A-5
YEARS OF SCHOOL COMPLETED	A-6
REFERENCE WEEK	A-6
LABOR FORCE STATUS	A-6
Employed	A-6
Unemployed	A-6
Experienced Unemployed	A-6
Experienced Civilian Labor Force	A-6
Actual Hours Worked	A-6
INCOME IN 1979	A-6
EARNINGS IN 1979	A-7

GENERAL

The 1980 census was conducted primarily through self-enumeration. The principal determinant for the response was, therefore, the questionnaire and its accompanying instruction guide. Furthermore, census takers were instructed, in their telephone and personal-visit interviews, to read the questions directly from the questionnaire. The definitions and explanations given below for each subject are drawn largely from various technical and procedural materials used in the collection of the data. These materials helped the census interviewers to understand more fully the intent of each question and, thus, to resolve problems or unusual cases in a manner consistent with this intent. Also included is certain explanatory information to assist the user in the proper utilization of the statistics.

Facsimiles of the questionnaire pages containing the population and housing questions used to produce the data shown in this report and the pages of the respondent instruction guide which relate to these questions are presented in appendix D.

INDUSTRY AND OCCUPATION AND CLASS OF WORKER

Introduction

The data on industry and occupation were derived from answers to questions 28 and 29, respectively. Industry relates to the kind of business conducted by a person's employing organization; occupation describes the kind of work the person does on the job. For employed persons who worked at two or more jobs, the data refer to the job at which the person worked the greatest number of hours. For unemployed persons the data refer to the last job. The industry and occupation statistics are derived

from the detailed classification systems developed for the 1980 census (see below). The 1980 Census of Population: *Classified Index of Industries and Occupations* (PHC80-R4), 1982, U.S. Government Printing Office, Washington, D.C., provides additional information on the industry and occupation classification systems.

Clerical staff in the Bureau's processing offices converted the written industry and occupation descriptions from the questionnaire to identifying codes by relating these descriptions to an entry in the 1980 Census of Population: *Alphabetical Index of Industries and Occupations* (PHC80-R3), 1982, U.S. Government Printing Office, Washington, D.C. For the industrial code, however, these coders first referred to a Company Name List. This list, prepared from the Standard Statistical Establishment List developed by the Bureau of the Census for use in the economic censuses and surveys, contains the names of establishments and their Standard Industrial Classification codes converted to population census equivalents. This list facilitates coding and helps maintain industrial classification comparability.

Occupation Classification System

The system developed for the 1980 census consists of 503 specific occupation categories arranged into 6 summary and 13 major occupation groups. This classification was developed to be consistent with the 1980 *Standard Occupational Classification Manual* (SOC)¹, published by the U.S. Department of Commerce, Office of Federal Statistical Policy and Standards. This is the first time there was a United States standard to use

¹ *Standard Occupational Classification Manual: 1980*. Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 003-005-00187-5. Price \$17.00.

in developing the census occupational classification.

The SOC Manual presents a list of 12 principles used in occupational classification. The primary principles used were (1) the classification should realistically reflect the current occupational structure of the United States and (2) an occupation should be classified on the basis of work performed. The conversion of the census classification to the SOC has caused the 1980 census classification to be less comparable with the classifications used in earlier censuses. (See the section on "Comparability With Earlier Census Data.")

This report presents selected groupings of the 503 categories. Table 4 with 447 occupation categories presents the most detailed classification used in this report. Most of the categories that are not shown separately are those occupations that fall into one industry, such as "Teachers, postsecondary" and "Private household occupations." An intermediate level is used in the other tables that present demographic and economic characteristics. List A at the end of this appendix presents the relationship between the detailed and intermediate levels of classification.

Industry Classification System

Definition—The industry classification system developed for the 1980 Census of Population consists of 231 categories classified into 13 major industry groups. Since 1940 the industrial classification has been based on the *Standard Industrial Classification Manual* (SIC)². The 1980 census classification was developed from the 1972 SIC published by the Executive Office of the President, Office of Management and Budget, and the 1977 Supplement to that manual.

The SIC is designed primarily to classify establishments by the type of industrial activity in which they are engaged. However, census reports, which are collected from households, differ in nature and detail from those obtained from establishment surveys. Therefore, the census classification systems, while

defined in SIC terms, cannot reflect the full detail in all categories.

Table 8 presents all 231 industry categories. An intermediate level is used in the other tables. List B at the end of this appendix shows the relationship between the detailed and intermediate levels.

Relation of Some Industry Groups to Similar Occupations or Class of Worker—

The industry category "Public administration" is limited to regular government functions such as legislative, judicial, administrative, and regulatory activities of governments. Other government organizations such as schools, hospitals, liquor stores, and bus lines are classified by industry according to the activity in which they are engaged. On the other hand, the class of worker government categories include all government workers.

Some occupation groups are closely related to certain industries. Operators of transportation equipment, farm operators and workers, and private household workers account for major portions of their respective industries of transportation, agriculture, and private households. The industry categories, however, include persons in other occupations. For example, persons employed in agriculture include truck drivers and bookkeepers; persons employed in the transportation industry include mechanics, freight handlers, and bookkeepers; and persons employed in the private household industry include occupations such as chauffeur, gardener, and secretary.

Class of Worker

The data on class of worker were derived from answers to question 30. The information on class of worker refers to the same job as a respondent's industry and occupation and categorizes persons according to the type of ownership of the employing organization. The definitions of the class of worker categories shown in this report are as follows:

Private Wage and Salary Workers—Private wage and salary workers are persons who work for a private employer for wages, salary, commission, tips, pay-in-kind, or at piece rates. Self-employed persons whose business is incorporated are included here because they are paid employees of their own companies.

Government Workers—Government workers are employees of any Federal, State, or local governmental unit, regardless of the activity of the particular agency.

Self-employed Workers—Self-employed workers are those who work for profit or fees in their own unincorporated business, profession, or trade, or who operate a farm.

Unpaid Family Workers—Unpaid family workers are persons who work without pay in a business or on a farm operated by a relative.

In tabulations that categorize persons as either salaried or self-employed, the salaried category includes private and government wage and salary workers, while the self-employed includes self-employed persons and unpaid family workers.

Sample Edit and Allocation Procedures

Occasionally respondents supplied industry, occupation, or class of worker descriptions which were not sufficiently specific for precise classification or did not report on these items. Some of these cases were corrected through the field editing process and during the coding and tabulation operations. In the coding operation certain types of incomplete entries were corrected using the *Alphabetical Index of Industries and Occupations*. For example, it is possible in certain situations to assign an industry code based on the occupation reported.

Following the coding operation, there was a computer edit and allocation process. The edit first determined whether a respondent was in the universe which required an industry and occupation code. The codes for the three items (industry, occupation, and class of worker) were checked to make sure they were valid and were edited for their relation to each other. Invalid and inconsistent codes were either blanked or changed to a consistent code.

If one or more of the three codes were blank after the edit, a code was allocated from a "similar" person based on other items such as age, sex, education, farm or nonfarm residence, and weeks worked. If all the labor force and income data were also blank, all of these economic

²*Standard Industrial Classification Manual: 1972*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. Price \$15.00. *1977 Supplement*. Stock No. 003-005-00176-0. Price \$2.00.

items were allocated from one other person who did provide all the necessary data. This was the first census that allocated industry and occupation to detailed categories.

Comparability With Earlier Census Data

Comparability of industry and occupation data is affected by a number of factors, a major one being the systems used to classify the questionnaire responses. For both the industry and occupation classification systems, the basic structures were generally the same from 1940 to 1970, but changes in the individual categories limited comparability of the data from one census to another. These changes resulted from the need to recognize the "birth" of new industries and occupations, the "death" of others, and growth and decline in existing industries and occupations, as well as the desire of analysts and other users for increased detail in presentation of the data. Probably the greatest cause of incomparability is the movement of a segment of a category to a different category in the next census. Such movements are necessitated by changes in functions and respondent terminology, and refinement of category composition.

In the 1980 census, the industry classification underwent limited change to reflect recent changes to the SIC. The occupation classification however was substantially revised because of the adoption of the Standard Occupational Classification by Federal agencies (see "Occupation Classification System"). During this entire period, from 1940 to 1980, the number of categories in the industry classification system increased from 132 to 231, and in the occupation system from 224 to 503.

Other factors that affect data comparability include the universe to which the data refer (in 1970, the age cutoff for labor force was changed from 14 years to 16 years); how the industry and occupation questions are worded on the questionnaire (for example, important changes were made in 1970); improvements in the coding procedures (the Company Name List technique was introduced in 1960); and how the "not reported" cases are handled. Prior to 1970, they were placed in residual "Industry not reported" and "Occupation not reported" categories.

In 1970, an allocation process was introduced through which these cases were assigned to major groups. In 1980, the "Not reported" cases were assigned to individual categories. Therefore, the 1980 data for individual categories include some numbers of persons who would have been tabulated in a "Not reported" category in previous censuses.

The following publications contain information on the various factors affecting comparability and are particularly useful for understanding differences in the occupation and industry information from earlier censuses: U.S. Bureau of the Census, Sixteenth Census Reports, Population, *Comparative Occupation Statistics for the United States, 1870 to 1940*; U.S. Bureau of the Census, *Occupational Trends in the United States, 1900 to 1950*, Working Paper No. 5, 1958; U.S. Bureau of the Census, *Changes Between the 1950 and 1960 Occupation and Industry Classifications-With Detailed Adjustments of 1950 Data to the 1960 Classifications*, Technical Paper No. 18, 1968; and U.S. Bureau of the Census, *1970 Occupation and Industry Classification Systems in Terms of their 1960 Occupation and Industry Elements*, Technical Paper No. 26, 1972.

Comparability With Other Data

Comparability between the statistics presented in this volume and statistics from other sources is affected by many of the factors described in the section on "Labor Force Status." These factors are primarily geographic differences between residence and place of work, different dates of reference, and differences in counts because of dual job holding. Industry data from population censuses cover all industries and all kinds of workers, whereas data from establishments often exclude private household workers, government workers, and the self-employed. Also, the replies from household respondents may differ in detail and nature from those obtained from establishments.

Occupation data from the census and data from government licensing agencies, professional associations, trade unions, etc., may not be as comparable as expected. Organizational listings often included persons not in the labor force or persons devoting all or most of their

time to another occupation; or the same person may be included in two or more different listings. In addition, relatively few organizations, except for those requiring licensing, attain complete coverage of membership in a particular occupation field.

Related Reports

Similar data on occupation by industry from earlier censuses have been published since 1950 in census reports entitled *Occupation by Industry*. Other subject reports on occupation and industry proposed for the 1980 census are *Occupational Characteristics* and *Industrial Characteristics*. The first report will cover a range of demographic and economic characteristics concentrating on occupation and the second report, on industry.

Current Population Survey

Data for selected occupation and industry categories are collected also by the Bureau of the Census in the Current Population Survey (CPS) and published monthly by the Bureau of Labor Statistics in *Employment and Earnings*. In addition, CPS data on major occupation and, occasionally, major industry group, for such characteristics as marital status, mobility, and income, are published annually by the Census Bureau in the *Current Population Reports* Series P-20 and P-60.

SEX

The data on sex were derived from answers to question 3, which was asked of all persons.

RACE

The data on race were derived from answers to question 4, which was asked of all persons. The concept of race as used by the Census Bureau reflects self-identification by respondents; it does not denote any clear-cut scientific definition of biological stock. Since the 1980 census obtained information on race through self-identification, the data represent self-classification by people according to the race with which they identify. Data presented for housing units, households, and families are classified by the race of the householder.

For persons who could not provide a single response to the race question, the race of the person's mother was used; however, if a single response could not be provided for the person's mother, the first race reported by the person was used. This is a modification of the 1970 census procedure in which the race of the person's father was used.

The category "White" includes persons who indicated their race as White, as well as persons who did not classify themselves in one of the specific race categories listed on the questionnaire but entered a response such as Canadian, German, Italian, Lebanese, or Polish. In the 1980 census, persons who did not classify themselves in one of the specific race categories but marked "Other" and wrote in entries such as Cuban, Puerto Rican, Mexican, or Dominican were included in the "Other" race category. In the 1970 census, most of these persons were included in the "White" category.

The category "Black" includes persons who indicated their race as Black or Negro, as well as persons who did not classify themselves in one of the specific race categories listed on the questionnaire but reported entries such as Jamaican, Black Puerto Rican, West Indian, Haitian, or Nigerian.

The category "American Indian, Eskimo, and Aleut" includes persons who classified themselves as such in one of the specific race categories. In addition, persons who did not report themselves in one of the specific race categories but entered the name of an Indian tribe or reported such entries as Canadian Indian, French American Indian, or Spanish American Indian were classified as American Indian.

The category "Asian and Pacific Islander" includes persons who indicated their race as Chinese, Filipino, Japanese, Asian Indian, Korean, Vietnamese, Hawaiian, Samoan, and Guamanian, as well as persons who provided write-in entries of such Asian and Pacific Islander groups as Cambodian, Laotian, Pakistani, and Fijian under the "Other" race category. Also, persons who did not classify themselves in one of the specific race categories but wrote in an entry indicating one of the nine specific categories listed above (e.g., Chinese or Filipino) were classified accordingly. For example, entries of Nipponese and Japanese Ameri-

can were classified as Japanese, entries of Taiwanese and Cantonese as Chinese, etc.

The category "Race, n.e.c." includes all other persons not included in the categories (White, Black, American Indian, Eskimo, and Aleut, and Asian and Pacific Islander) mentioned above. Persons reporting in the "Other" race category and providing write-in entries such as Eurasian, Cosmopolitan, Inter-racial, or a Spanish origin group (e.g., Mexican, Cuban, or Puerto Rican) were included in "Race, n.e.c." During the coding operations, each of the subgroups comprising "Race, n.e.c." were identified separately.

If the race entry was missing on the questionnaire for a member of a household, an answer was assigned in the computer according to the reported entries of race of other household members using specific rules of precedence of household relationship. If race was not entered for anyone in the household (excluding paid employees), the race of a householder in a previously processed household was assigned. This procedure is a variation of the general allocation process described in Appendix C, "Accuracy of the Data."

Comparability Between Sample and 100-Percent Data for Racial Groups—There may be differences between the *totals* for the racial groups based on 100-percent tabulations and sample tabulations. Such differences are the result of sampling variability, nonsampling error, and an additional edit and review performed on the sample questionnaires. For a further explanation of the differences between 100-percent and sample data, see *General Social and Economic Characteristics*, PC80-1-C. (For an explanation of sampling variability and nonsampling error, see Appendix C, "Accuracy of the Data.")

During the sample processing, the responses in the race question underwent more extensive review and edit than performed during the previous processing stages. Additional efforts were made to assign write-in entries to specific race categories and to resolve inconsistent and incomplete responses. The impact of this further work varies substantially by racial group and by geographic area, but is generally negligible. Most affected is the "Other" race category since a number of persons originally counted therein in the 100-percent tabulations were shifted into specific race categories in the sample

tabulations. For instance, a number of persons who marked the "Other" race category supplied a write-in entry (e.g., Canadian, Polish, Lebanese, Black Puerto Rican, or Jamaican) which indicated that they belonged in one of the specific race categories. Furthermore, persons in the "Other" category reported as Cambodian, Laotian, Thai, etc., were combined into an "Other Asian and Pacific Islander" category which, together with the specific Asian and Pacific Islander categories (e.g., Japanese, Chinese, Filipino, etc.), covers the entire Asian and Pacific Islander population. This total is obtainable only from the sample tabulations, not from the 100-percent tabulations.

Information now available indicates that, since the effects of the additional review and edit were generally limited and rather varied, the 100-percent tabulations are usually the preferable source for comparable data for racial groups. In the case of distributions for subjects covered only on a sample basis (e.g., education, labor force status, income, etc.) and data for the entire Asian and Pacific Islander population, the sample figures are the only data available and should be used within the context of the sampling variability associated with them.

Comparability With 1970 Census Data—Differences between 1980 census and 1970 census population totals by race seriously affect the comparability for certain race groups. First, a large number of Spanish origin persons reported their race differently in the 1980 census than in the 1970 census; this difference in reporting has a substantial impact on the counts and comparability for the "White" population and the "Race, n.e.c." or "Other" race population (shown as "All other" races in most 1970 publications). A much larger proportion of the Spanish origin population in 1980 than in 1970 reported their race in the questionnaire category "Other." Second, in 1970, most persons who marked the "Other" race category and wrote in a Spanish designation such as Mexican, Venezuelan, Latino, etc., were reclassified as "White." In 1980, such persons were not reclassified but remained in the "Other" race category. As a result of this procedural change and the differences in reporting by this population, the proportion of the Spanish origin population classified as "Other"

race in the 1980 census was substantially higher than that in the 1970 census. Nationally, in 1970, only 1 percent of Spanish origin persons were classified as "Other" race and 93 percent as "White." The 1980 census sample data showed a much larger proportion, 38 percent of Spanish origin persons reported their race as "Other" and only 58 percent reported "White." As a consequence of these differences, 1980 population totals for "White" and "Other" are not comparable with corresponding 1970 figures.

The 1980 count for the Asian and Pacific Islander population reflects a high level of immigration during the 1970's as well as a number of changes in census procedures which were developed, in part, as a result of this high level of immigration. First, the number of Asian and Pacific Islander categories listed separately on the 1980 census questionnaire was expanded to include four additional groups: Vietnamese, Asian Indian, Guamanian, and Samoan. Asian Indians were classified as "White" in 1970, but were included in the "Asian and Pacific Islander" category in 1980. The Vietnamese, Guamanian, and Samoan populations were included in the "Other" race category in the 1970 census but were included in the "Asian and Pacific Islander" category in 1980. Second, "Other Asian and Pacific Islander" groups such as Cambodian, Laotian, Pakistani, and Fiji Islander were identified and tabulated as Asian and Pacific Islander in sample tabulations in the 1980 census. In 1970, most of these groups were included in the "Other" race category.

AGE

The data on age were derived from answers to question 5, which was asked of all persons. Only the information in questions 5b and 5c (month and year of birth) was read into the computer. Answers to question 5a on age at last birthday were used during field review to fill in any blanks in question 5c. The age classification is based on the age of the person in completed years as of April 1, 1980. The data on age represent the difference, as calculated in the computer, between date of birth and April 1, 1980. The median ages shown in this report were computed from data for

six age categories. If the median fell in the terminal category of an age distribution, the method of presentation was to show the initial age of the terminal category followed by a plus sign; thus, if the median fell in the category "65 years and over," it is shown as "65+."

SPANISH/HISPANIC ORIGIN

The data on Spanish/Hispanic origin or descent were derived from answers to question 7, which was asked of all persons.

Persons of Spanish/Hispanic origin or descent are those who reported Mexican, Puerto Rican, Cuban or other Spanish/Hispanic origin in question 7. Persons who reported "other Spanish/Hispanic" origin were those whose origins are from Spain or the Spanish-speaking countries of Central or South America, or they are persons identifying their origin or descent as being Spanish, Spanish-American, Hispano, Latino, etc.

Origin or descent can be viewed as the ancestry, nationality group, lineage, or country in which the person or person's parents or ancestors were born before their arrival in the United States. It is important to note that persons of Spanish origin may be of any race. Data are presented for housing units, households, and families classified by the Spanish origin of the householder.

Persons of more than one type of Spanish origin and persons of both a Spanish and some other origin(s) who were in doubt as to how to report origin were classified according to the origin of the person's mother. If a single origin was not provided for the person's mother, the first reported origin of the person was recorded.

If any household member failed to respond to the Spanish/Hispanic origin question, in the 100-percent edit a response was assigned by computer according to the reported entries of other household members by using specific rules of precedence of household relationship. If origin was not entered for any household member (excluding a paid employee), origin was assigned from another household according to the race of the householder. The sample processing included more extensive edit procedures. For example, if any household member failed to respond to the Spanish/Hispanic origin

question, a response was first assigned from available related information, such as ancestry and place of birth, reported for the individual. These edit procedures are a variation of the general allocation process described in Appendix C, "Accuracy of the Data."

Limitations of the Data

A preliminary evaluation study of the reporting in the 1980 census item on Spanish origin indicated that there was misreporting in the Mexican origin category by White and Black persons in certain areas. The study results showed evidence that the misreporting occurred in the South (excluding Texas), the Northeast (excluding the New York City area), and a few States in the North Central Region. Also, results based on available data suggest that the impact of potential misreporting of Mexican origin in the 1980 census is severe in those portions of the abovementioned regions where the Spanish origin population is generally sparse. However, 1980 census data on the Mexican origin population or total Spanish origin population, at the national level, are not seriously affected by the reporting problem. For a more detailed discussion of the evaluation of the Spanish origin item, see the 1980 population census Supplementary Report, *Persons of Spanish Origin by State: 1980*, PC80-S1-7.

The data on the Spanish origin population shown in this report may differ from comparable figures shown in other 1980 census reports. Such differences are the result of sampling variability, nonsampling error, and more extensive edit procedures performed for the Spanish origin item on the sample questionnaires. The data in this report are based on a sample, whereas certain other reports (e.g., the PC80-1-B series) present data based on 100-percent tabulations. For a fuller explanation about the differences between 100-percent and sample data, see *General Social and Economic Characteristics*, PC80-1-C.

Comparability With 1970 Census Data

The 1980 data on Spanish origin are not directly comparable with those of 1970 because of several factors; namely, overall improvements in the 1980 census, better coverage of the population, im-

proved question design, and an effective public relations campaign by the Census Bureau with the assistance of national and community ethnic groups. These efforts at census improvement explain, in part, the large increase in the number of Hispanics over 1970. Also, these efforts undoubtedly resulted in the inclusion of a sizeable but unknown number of persons of Hispanic origin who are in the country in other than legal status.

In the 1980 census Spanish origin question, specific changes in design from the 1970 question included the placement of the category "No, not Spanish/Hispanic" as the first category in that question. (The corresponding category appeared last in the 1970 question.) Also, the category "Central or South American" was deleted because in 1970 some respondents misinterpreted the category; furthermore, the designations "Mexican-American" and "Chicano" were added to the Spanish origin question in 1980. In the 1970 census, the question on Spanish origin was asked of only a 5-percent sample of the population; in the 1980 census, the Spanish origin question was asked of everyone in the Nation.

YEARS OF SCHOOL COMPLETED

The data on years of school completed were derived from answers to questions 9 and 10. Persons whose education was received in a foreign school system or an ungraded school were instructed to report the approximate equivalent grade in the regular American school system. If a person was currently attending or did not finish (item 10) the highest grade attended (item 9), he or she was tabulated as having completed the previous grade or year.

If the person did not attend college but finished high school by an equivalency test (GED), the person was instructed to mark grade 12 (high school, 4 years).

"Percent high school graduates" includes persons who completed four years of high school as well as those who completed one or more years of college.

REFERENCE WEEK

The data on labor force status and journey to work relate to the calendar week

preceding the date on which the respondents completed their questionnaires or were interviewed by enumerators. This week is not the same for all respondents because not all persons were enumerated during the same week.

LABOR FORCE STATUS

The data on labor force status were derived from answers to questions 22, 25, and 26. The "labor force" includes all persons in the civilian labor force plus members of the Armed Forces (persons 16 years old and over on active duty with the U.S. Army, Navy, Air Force, Marine Corps, or Coast Guard). The "civilian labor force" consists of persons classified as employed or unemployed in accordance with the criteria described below.

All persons 16 years old and over who are not classified as members of the labor force are defined as "not in labor force." This category consists mainly of students, housewives, retired workers, seasonal workers enumerated in an "off" season who were not looking for work, inmates of institutions, disabled persons, and persons doing only incidental unpaid family work (less than 15 hours during the reference week).

Employed—Employed persons include all civilians 16 years old and over who were either (a) "at work"—those who did any work at all during the reference week as paid employees or in their own business or profession, or on their own farm, or who worked 15 hours or more as unpaid workers on a family farm or in a family business; or (b) were "with a job but not at work"—those who did not work during the reference week but had jobs or businesses from which they were temporarily absent due to illness, bad weather, industrial dispute, vacation, or other personal reasons. Excluded from the employed are persons whose only activity consisted of work around the house or volunteer work for religious, charitable, and similar organizations.

Unemployed—Persons are classified as unemployed if they were civilians 16 years old and over and (a) were neither "at work" nor "with a job but not at work" during the reference week, (b) were looking for work during the last 4 weeks, and (c) were available to accept a job. Also included as unemployed are

persons who did not work at all during the reference week and were waiting to be called back to a job from which they had been laid off.

Experienced Unemployed—Unemployed persons who have worked at any time in the past are classified as the "Experienced unemployed."

Experienced Civilian Labor Force—The "experienced civilian labor force" comprises the employed and the experienced unemployed.

Actual Hours Worked—All persons in the sample who reported working during the reference week were asked to report in item 22b the number of hours that they worked. The statistics on hours worked pertain to the number of hours actually worked at all jobs, and do not necessarily reflect the number of hours usually worked or the scheduled number of hours. The number of persons who worked only a small number of hours is probably understated since such persons sometimes consider themselves as not working.

INCOME IN 1979

The data on income in 1979 were derived from answers to questions 32 and 33. Information on money income received in the calendar year 1979 was requested from persons 15 years old and over. "Total income" is the algebraic sum of the amounts reported separately for wage and salary income; nonfarm net self-employment income; farm net self-employment income; interest, dividend, royalty, or net rental income; Social Security or Railroad Retirement income; public assistance or welfare income; and all other income. The figures represent the amount of income received regularly before deductions for personal income taxes, Social Security, bond purchases, union dues, medicare deductions, etc.

"Wage or salary income" is defined as the total money earnings received for work performed as an employee at any time during the calendar year 1979. It includes wages, salary, pay from Armed Forces, commissions, tips, piece rate payments, and cash bonuses earned. "Non-farm net self-employment income" is defined as net money income (gross receipts minus business expenses) received

from a business, professional enterprise, or partnership in which the person was engaged on his or her own account. "Farm net self-employment income" is defined as the net money income (gross receipts minus operating expenses) received from the operation of a farm by a person on his or her own account, as an owner, renter, or sharecropper. "Earnings" is defined as the algebraic sum of wage or salary income and net income from nonfarm and farm self-employment. "Interest, dividend, royalty, or net rental income" includes interest on savings or bonds, dividends from stockholdings or membership in associations, net royalties, and net income from rental of property to others and receipts from boarders or lodgers. "Social Security income" includes Social Security pensions and survivors' benefits and permanent disability insurance payments made by the Social Security Administration, prior to deductions for medical insurance, and railroad retirement insurance checks from the U.S. Government. "Medicare" reimbursements are not included. "Public assistance" or public welfare income includes (1) Supplemental Security income payments made by Federal, State, or local welfare agencies to low income persons who are aged (65 years old or over), blind, or disabled, (2) Aid to Families with Dependent Children, and (3) general assistance. Separate payments received for hospital or other medical care (vendor payments) are excluded from this item. "Income from all other sources" includes unemployment compensation, veterans' payments, public or private pensions, alimony or child support, workers' compensation, periodic payments from estates and trust funds, periodic receipts from annuities or insurance, contributions received periodically from persons not living in the household, military family allotments, net gambling

winnings, and other kinds of periodic income other than earnings.

Receipts from the following sources were not included as income: money received from sale of property (unless the recipient was engaged in the business of selling such property); the value of income "in kind" from food stamps, public housing subsidies, medical care, employers' contributions for pensions, etc.; withdrawal of bank deposits; money borrowed; tax refunds; exchange of money between relatives living in the same household; gifts and lump-sum inheritances, insurance payments, and other types of lump-sum receipts.

Although the income statistics cover the calendar year 1979, the characteristics of persons and the composition of households and families refer to the time of enumeration (April 1, 1980). However, the composition of most households and families was the same during 1979 as in April 1980.

The median income is the amount which divides the distribution into two equal groups, one having incomes above the median and the other having incomes below the median. For households, families, and unrelated individuals the median income is based on the distribution of the total number of units including those with no income. The median income values for all households, families, and unrelated individuals are computed on the basis of more detailed income intervals than shown in this report. Median income figures of \$30,000 or less are generally calculated using linear interpolation; all other median income amounts are derived through Pareto interpolation. For a detailed description of these interpolation procedures, see appendix B to the Current Population Reports, Series P-60, No. 129, *Money Income of Families and Persons in the United States: 1979*.

The mean income is the amount obtained by dividing the total income of a particular statistical universe by the number of units in that universe. Thus, mean household income is obtained by dividing total household income by the total number of households. For the various types of income the means are based on households having those types of income.

Per capita income is the mean income computed for every man, woman, and child in a particular group. It is derived by dividing the total income of a particular group by the total population in that group.

Care should be exercised in using and interpreting mean or per capita values in the statistics for small areas or small subgroups of the population. Since the mean and per capita income amounts are strongly influenced by extreme values in the distribution, they are especially susceptible to the effects of sampling variability, misreporting, and processing errors. The median, which is not affected by extreme values, is therefore a better measure than the mean or per capita when the population base is small.

There may be differences between the data in this report on income in 1979 and similar data shown in the *Summary Characteristics for Governmental Units and Standard Metropolitan Statistical Areas*, PHC80-3, reports and in the Supplementary Reports, *Advance Estimates of Social, Economic, and Housing Characteristics*, PHC80-S2. Any such differences are a result of errors corrected after the release of the PHC80-3 and the PHC80-S2 reports.

EARNINGS IN 1979

Earnings is defined as the algebraic sum of wage or salary income and net income from farm and nonfarm self-employment, as described above.

List A. INTERMEDIATE OCCUPATIONAL CLASSIFICATION (134) ITEMS WITH COMPONENT DETAILED CATEGORIES

This list presents the relationship between the detailed occupation stub used in Table 4 and the intermediate occupation stub used in Tables 1–3. Numbers in parentheses following the occupation categories are the SOC definitions.

EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS

1. Officials and administrators, public administration
Legislators, chief executives, and general administrators, public administration (111, 112)
Administrators and officials, public administration (1132-1139)
Administrators, protective services (1131)
2. Financial managers (122)
3. Managers, marketing, advertising, and public relations (125)
4. Administrators, education and related fields (128)
5. Managers, medicine and health (131)
6. Other specified managers
Personnel and labor relations managers (123)
Purchasing managers (124)
Managers, properties and real estate (1353)
Postmasters and mail superintendents (1344)
Funeral directors (Part 1359)
7. Managers and administrators, n.e.c. salaried (121, 126, 127, 132-139, exc. 1344, 1353, part 1359)
8. Managers and administrators, n.e.c., self-employed
9. Accountants and auditors (1412)
10. Personnel, training, and labor relations specialists (143)
11. Buyers and purchasing agents
Purchasing agents and buyers, farm products (1443)
Buyers, wholesale and retail trade, except farm products (1442)
Purchasing agents and buyers, n.e.c. (1449)
12. Inspectors and compliance officers
Construction inspectors (1472)
Inspectors and compliance officers, except construction (1473)
13. Other management related occupations
Underwriters (1414)
Other financial officers (1415, 1419)
Management analysts (142)
Business and promotion agents (145)
Management related occupations, n.e.c. (149)

PROFESSIONAL SPECIALTY OCCUPATIONS

14. Architects (161)
15. Civil engineers (1628)
16. Electrical and electronic engineers (1633, 1636)
17. Industrial engineers (1634)
18. Mechanical engineers (1635)
19. Other engineers
Aerospace engineers (1622)
Metallurgical and materials engineers (1623)
Mining engineers (1624)
Petroleum engineers (1625)
Chemical engineers (1626)
Nuclear engineers (1627)
Agricultural engineers (1632)
Marine engineers and naval architects (1637)
Engineers, n.e.c. (1639)
20. Surveyors and mapping scientists (164)
21. Computer systems analysts and scientists (171)
22. Operations and systems researchers and analysts (172)
23. Mathematical scientists
Actuaries (1732)
Statisticians (1733)
Mathematical scientists, n.e.c. (1739)
24. Chemists, except biochemists (1845)
25. Other natural scientists
Physicists and astronomers (1842, 1843)
Atmospheric and space scientists (1846)

PROFESSIONAL SPECIALTY OCCUPATIONS—CON.

- Other natural scientists—Con.
Geologists and geodesists (1847)
Physical scientists, n.e.c. (1849)
Agricultural and food scientists (1853)
Biological and life scientists (1854)
Forestry and conservation scientists (1852)
Medical scientists (1855)
26. Health diagnosing occupations
Physicians (261)
Dentists (262)
Veterinarians (27)
Optometrists (281)
Podiatrists (283)
Health diagnosing practitioners, n.e.c. (289)
 27. Registered nurses (29)
 28. Other health assessment and treating occupations
Pharmacists (301)
Dietitians (302)
Therapists (303)
Physicians' assistants (304)
 29. Teachers, except postsecondary
Teachers, prekindergarten and kindergarten (231)
Teachers, elementary and secondary school (232, 233)
Teachers, special education (235)
Teachers, n.e.c. (236, 239)
 30. Social scientists and urban planners
Economists (1912)
Psychologists (1915)
Sociologists (1916)
Social scientists, n.e.c. (1913, 1914, 1919)
Urban planners (192)
 31. Social and recreation workers
Social workers (2032)
Recreation workers (2033)
 32. Lawyers and judges
Lawyers (211)
Judges (212)
 33. Writers, artists, entertainers, and athletes
Authors (321)
Technical writers (398)
Designers (322)
Musicians and composers (323)
Actors and directors (324)
Painters, sculptors, craft-artists, and artist printmakers (325)
Photographers (326)
Dancers (327)
Artists, performers, and related workers, n.e.c. (328, 329)
Editors and reporters (331)
Public relations specialists (332)
Announcers (333)
Athletes (34)
 34. Other professional specialty occupations
Teachers, postsecondary (22)
Counselors, educational and vocational (24)
Librarians (251)
Archivists and curators (252)
Clergy (2042)
Religious workers, n.e.c. (2049)

TECHNICIANS AND RELATED SUPPORT OCCUPATIONS

35. Licensed practical nurses (366)

TECHNICIANS AND RELATED SUPPORT OCCUPATIONS—CON.

36. Other health technologists and technicians
Clinical laboratory technologists and technicians (362)
Dental hygienists (363)
Health record technologists and technicians (364)
Radiologic technicians (365)
Health technologists and technicians, n.e.c. (369)
37. Electrical and electronic technicians (3711)
38. Industrial and mechanical engineering technicians
Industrial engineering technicians (3712)
Mechanical engineering technicians (3713)
39. Drafting and surveying technicians
Drafting occupations (372)
Surveying and mapping technicians (373)
40. Other engineering and science technicians
Engineering technicians, n.e.c. (3719)
Biological technicians (382)
Chemical technicians (3831)
Science technicians, n.e.c. (3832, 3833, 384, 389)
41. Airplane pilots and navigators (825)
42. Air traffic controllers and broadcast equipment operators
Air traffic controllers (392)
Broadcast equipment operators (393)
43. Computer programmers (3971, 3972)
44. Other technicians, except health, engineering, and science
Tool programmers, numerical control (3974)
Legal assistants (396)
Technicians, n.e.c. (399)

SALES OCCUPATIONS

45. Supervisors and proprietors, sales occupations, salaried (40)
46. Supervisors and proprietors, sales occupations, self-employed
47. Sales representatives, finance and business services
Insurance sales occupations (4122)
Real estate sales occupations (4123)
Securities and financial services sales occupations (4124)
Advertising and related sales occupations (4153)
Sales occupations, other business services (4152)
48. Sales representatives, commodities, except retail
Sales engineers (421)
Sales representatives, mining, manufacturing, and wholesale (423, 424)
49. Cashiers (4364)
50. Other sales occupations, retail and personal services
Sales workers, commodities (434, 435, 4363)
Street and door-to-door sales workers (4366)
News vendors (4365)
51. Sales related occupations
Demonstrators, promoters and models, sales (445)
Auctioneers (447)
Sales support occupations, n.e.c. (444, 446, 449)

ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL

52. Supervisors, administrative support occupations
Supervisors, general office (4511, 4513, 4514, 4516, 4519, 4529)
Supervisors, computer equipment operators (4512)
Supervisors, financial records processing (4521)
Chief communications operators (4523)
Supervisors; distribution, scheduling, and adjusting clerks (4522, 4524-4528)
53. Computer equipment operators
Computer operators (4612)
Peripheral equipment operators (4613)
54. Secretaries (4622)
55. Stenographers and typists
Stenographers (4623)
Typists (4624)
56. Receptionists (4645)

ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL—CON.

57. Other information clerks
Interviewers (4642)
Hotel clerks (4643)
Transportation ticket and reservation agents (4644)
Information clerks, n.e.c. (4649)
58. File clerks (4696)
59. Other records processing occupations, except financial
Classified-ad clerks (4662)
Correspondence clerks (4663)
Order clerks (4664)
Personnel clerks, except payroll and timekeeping (4692)
Library clerks (4694)
Records clerks (4699)
60. Bookkeepers, accounting, and auditing clerks (4712)
61. Payroll and timekeeping clerks (4713)
62. Other financial records processing occupations
Billing clerks (4715)
Cost and rate clerks (4716)
Billing, posting, and calculating machine operators (4718)
63. Telephone operators (4732)
64. Mail and message distributing occupations
Postal clerks, except mail carriers (4742)
Mail carriers, postal service (4743)
Mail clerks, except postal service (4744)
Messengers (4745)
65. Production coordinators and expeditors
Production coordinators (4752)
Expeditors (4758)
66. Traffic, shipping, and receiving clerks (4753)
67. Stock and inventory clerks (4754)
68. Other material recording, scheduling, and distributing clerks
Meter readers (4755)
Weighers, measurers, and checkers (4756)
Samplers (4757)
Material recording, scheduling, and distributing clerks, n.e.c. (4759)
69. Adjusters and investigators
Insurance adjusters, examiners, and investigators (4782)
Investigators and adjusters, except insurance (4783)
Eligibility clerks, social welfare (4784)
Bill and account collectors (4786)
70. Data-entry keyers (4793)
71. Other administrative support occupations
Duplicating machine operators (4722)
Mail preparing and paper handling machine operators (4723)
Office machine operators, n.e.c. (4729)
Telegraphers (4733)
Communications equipment operators, n.e.c. (4739)
General office clerks (463)
Bank tellers (4791)
Proofreaders (4792)
Statistical clerks (4794)
Teachers' aides (4795)
Administrative support occupations, n.e.c. (4787, 4799)

PRIVATE HOUSEHOLD OCCUPATIONS

72. Private household occupations (50)

PROTECTIVE SERVICE OCCUPATIONS

73. Guards
Crossing guards (5142)
Guards and police, except public service (5144)
Protective service occupations, n.e.c. (5149)
74. Other protective service occupations
Supervisors, firefighting and fire prevention occupations (5111)
Supervisors, police and detectives (5112)
Supervisors, guards (5113)

PROTECTIVE SERVICE OCCUPATIONS—CON.

- Other protective service occupations—Con.
- Fire inspection and fire prevention occupations (5122)
- Firefighting occupations (5123)
- Police and detectives, public service (5132)
- Sheriffs, bailiffs, and other law enforcement officers (5134)
- Correctional institution officers (5133)

SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD

- 75. Food preparation and service occupations
 - Supervisors, food preparation and service occupations (5211)
 - Bartenders (5212)
 - Waiters and waitresses (5213)
 - Cooks, except short order (5214)
 - Short-order cooks (5215)
 - Food counter, fountain and related occupations (5216)
 - Kitchen workers, food preparation (5217)
 - Waiters' and waitresses' assistants (5218)
 - Miscellaneous food preparation occupations (5219)
- 76. Health service occupations
 - Dental assistants (5232)
 - Health aides, except nursing (5233)
 - Nursing aides, orderlies, and attendants (5236)
- 77. Cleaning and building service occupations, except household
 - Supervisors, cleaning and building service workers (5241)
 - Maids and housemen (5242, 5249)
 - Janitors and cleaners (5244)
 - Elevator operators (5245)
 - Pest control occupations (5246)
- 78. Personal service occupations
 - Supervisors, personal service occupations (5251)
 - Barbers (5252)
 - Hairdressers and cosmetologists (5253)
 - Attendants, amusement and recreation facilities (5254)
 - Guides (5255)
 - Ushers (5256)
 - Public transportation attendants (5257)
 - Baggage porters and bellhops (5262)
 - Welfare service aides (5263)
 - Child care workers, except private household (5264)
 - Personal service occupations, n.e.c. (5258, 5269)

FARMING, FORESTRY, AND FISHING OCCUPATIONS

- 79. Farming, forestry, and fishing occupations
 - Farm operators and managers (55)
 - Farm occupations, except managerial (561)
 - Supervisors, related agricultural occupations (5621)
 - Groundskeepers and gardeners, except farm (5622)
 - Animal caretakers, except farm (5624)
 - Graders and sorters, agricultural products (5625)
 - Inspectors, agricultural products (5627)
 - Supervisors, forestry and logging workers (571)
 - Forestry workers, except logging (572)
 - Timber cutting and logging occupations (573, 579)
 - Captains and other officers, fishing vessels (Part 8241)
 - Fishers (583)
 - Hunters and trappers (584)

PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS

- 80. Supervisors, mechanics and repairers (60)
- 81. Automobile mechanics, including body
 - Automobile mechanics (6111)
 - Automobile body and related repairers (6115)
- 82. Industrial machinery repairers (613)
- 83. Electronic repairers, communications and industrial equipment (6151, 6153, 6155)

PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS—CON.

- 84. Heating, air conditioning, and refrigeration mechanics (616)
- 85. Other mechanics and repairers
 - Bus, truck, and stationary engine mechanics (6112)
 - Aircraft engine mechanics (6113)
 - Small engine repairers (6114)
 - Aircraft mechanics, except engine (6116)
 - Heavy equipment mechanics (6117)
 - Farm equipment mechanics (6118)
 - Machinery maintenance occupations (614)
 - Data processing equipment repairers (6154)
 - Household appliance and power tool repairers (6156)
 - Telephone line installers and repairers (6157)
 - Telephone installers and repairers (6158)
 - Miscellaneous electrical and electronic equipment repairers (6152, 6159)
 - Camera, watch, and musical instrument repairers (6171, 6172)
 - Locksmiths and safe repairers (6173)
 - Office machine repairers (6174)
 - Mechanical controls and valve repairers (6175)
 - Elevator installers and repairers (6176)
 - Millwrights (6178)
 - Specified mechanics and repairers, n.e.c. (6177, 6179)
 - Not specified mechanics and repairers
- 86. Supervisors, construction occupations
 - Supervisors; brickmasons, stonemasons, and tile setters (6312)
 - Supervisors, carpenters and related workers (6313)
 - Supervisors, electricians and power transmission installers (6314)
 - Supervisors; painters, paperhangers, and plasterers (6315)
 - Supervisors; plumbers, pipefitters, and steamfitters (6316)
 - Supervisors, n.e.c. (6311, 6318)
- 87. Carpenters (6422)
- 88. Electricians (6432)
- 89. Painters, construction and maintenance (6442)
- 90. Plumbers, pipefitters, and steamfitters (645)
- 91. Other construction trades
 - Brickmasons and stonemasons (6412, 6413)
 - Tile setters, hard and soft (6414, part 6462)
 - Carpet installers (Part 6462)
 - Drywall installers (6424)
 - Electrical power installers and repairers (6433)
 - Paperhangers (6443)
 - Plasterers (6444)
 - Concrete and terrazzo finishers (6463)
 - Glaziers (6464)
 - Insulation workers (6465)
 - Paving, surfacing, and tamping equipment operators (6466)
 - Roofers (6468)
 - Sheetmetal duct installers (6472)
 - Structural metal workers (6473)
 - Drillers, earth (6474)
 - Construction trades, n.e.c. (6467, 6475, 6476, 6479)
- 92. Extractive occupations
 - Supervisors, extractive occupations (632)
 - Drillers, oil well (652)
 - Explosives workers (653)
 - Mining machine operators (654)
 - Mining occupations, n.e.c. (656)
- 93. Supervisors, production occupations (67, 71)
- 94. Tool and die makers (6811)
- 95. Machinists (6813)
- 96. Sheet metal workers (6824)
- 97. Other precision metal workers
 - Precision assemblers, metal (6812)
 - Boilermakers (6814)
 - Precision grinders, filers, and tool sharpeners (6816)
 - Patternmakers and model makers, metal (6817)
 - Lay-out workers (6821)
 - Precious stones and metals workers (Jewelers) (6822, 6866)
 - Engravers, metal (6823)
 - Miscellaneous precision metal workers (6829)

**PRECISION PRODUCTION, CRAFT, AND REPAIR
OCCUPATIONS—CON.**

- 98. Precision textile, apparel, and furnishings machine workers
 - Dressmakers (Part 6852, part 7752)
 - Tailors (Part 6852)
 - Upholsterers (6853)
 - Shoe repairers (6854)
 - Apparel and fabric patternmakers (6856)
 - Miscellaneous precision apparel and fabric workers (6859, part 7752)
- 99. Precision food production occupations
 - Butchers and meat cutters (6871)
 - Bakers (6872)
 - Food batchmakers (6873, 6879)
- 100. Precision inspectors, testers, and related workers
 - Inspectors, testers, and graders, (6881, 828)
 - Adjusters and calibrators (6882)
- 101. Plant and system operators
 - Water and sewage treatment plant operators (691)
 - Power plant operators (Part 693)
 - Stationary engineers (Part 693, 7668)
 - Miscellaneous plant and system operators (692, 694, 695, 696)
- 102. Other precision production occupations
 - Patternmakers and model makers, wood (6831)
 - Cabinet makers and bench carpenters (6832)
 - Furniture and wood finishers (6835)
 - Miscellaneous precision woodworkers (6839)
 - Hand molders and shapers, except jewelers (6861)
 - Patternmakers, lay-out workers, and cutters (6862)
 - Optical goods workers (6864, part 7477, part 7677)
 - Dental laboratory and medical appliance technicians (6865)
 - Bookbinders (6844)
 - Electrical and electronic equipment assemblers (6867)
 - Miscellaneous precision workers, n.e.c. (6869)

MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS

- 103. Metalworking and plastic working machine operators
 - Lathe and turning machine set-up operators (7312)
 - Lathe and turning machine operators (7512)
 - Milling and planing machine operators (7313, 7513)
 - Punching and stamping press machine operators (7314, 7317, 7514, 7517)
 - Rolling machine operators (7316, 7516)
 - Drilling and boring machine operators (7318, 7518)
 - Grinding, abrading, buffing, and polishing machine operators (7322, 7324, 7522)
 - Forging machine operators (7319, 7519)
 - Numerical control machine operators (7326)
 - Miscellaneous metal, plastic, stone, and glass working machine operators (7329, 7529)
- 104. Fabricating machine operators, n.e.c. (7339, 7539)
- 105. Metal and plastic processing and woodworking machine operators
 - Molding and casting machine operators (7315, 7342, 7515, 7542)
 - Metal plating machine operators (7343, 7543)
 - Heat treating equipment operators (7344, 7544)
 - Miscellaneous metal and plastic processing machine operators (7349, 7549)
 - Wood lathe, routing, and planing machine operators (7431, 7432, 7631, 7632)
 - Sawing machine operators (7433, 7633)
 - Shaping and joining machine operators (7435, 7635)
 - Nailing and tacking machine operators (7636)
 - Miscellaneous woodworking machine operators (7434, 7439, 7634, 7639)
- 106. Printing machine operators
 - Printing machine operators (7443, 7643)
 - Photoengravers and lithographers (6842, 7444, 7644)
 - Typesetters and compositors (6841, 7642)
 - Miscellaneous printing machine operators (6849, 7449, 7649)

MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS—CON.

- 107. Textile machine operators
 - Winding and twisting machine operators (7451, 7651)
 - Knitting, looping, taping, and weaving machine operators (7452, 7652)
 - Textile cutting machine operators (7654)
 - Miscellaneous textile machine operators (7459, 7659)
- 108. Textile sewing machine operators (7655)
- 109. Laundering and dry cleaning machine operators (6855, 7658)
- 110. Packaging and filling machine operators (7462, 7662)
- 111. Furnace, kiln, and oven operators, except food (7675)
- 112. Other specified machine operators
 - Shoe machine operators (7656)
 - Pressing machine operators (7657)
 - Cementing and gluing machine operators (7661)
 - Extruding and forming machine operators (7463, 7663)
 - Mixing and blending machine operators (7664)
 - Separating, filtering, and clarifying machine operators (7476, 7666, 7676)
 - Compressing and compacting machine operators (7467, 7667)
 - Painting and paint spraying machine operators (7669)
 - Roasting and baking machine operators, food (7472, 7672)
 - Washing, cleaning, and pickling machine operators (7673)
 - Folding machine operators (7474, 7674)
 - Furnace, kiln, and oven operators, except food (7675)
 - Crushing and grinding machine operators (Part 7477, part 7677)
 - Slicing and cutting machine operators (7478, 7678)
 - Motion picture projectionists (Part 7479)
 - Photographic process machine operators (6863, 6868, 7671)
- 113. Miscellaneous and not specified machine operators
 - Miscellaneous machine operators, n.e.c. (Part 7479, 7665, 7679)
 - Machine operators, not specified
- 114. Welders and cutters (7332, 7532, 7714)
- 115. Solderers and brazers (7333, 7533, 7717)
- 116. Assemblers (772, 774)
- 117. Hand-working occupations
 - Hand cutting and trimming occupations (7753)
 - Hand molding, casting, and forming occupations (7754, 7755)
 - Hand painting, coating, and decorating occupations (7756)
 - Hand engraving and printing occupations (7757)
 - Hand grinding and polishing occupations (7758)
 - Miscellaneous hand working occupations (7759)
- 118. Graders and sorters, except agricultural (785)
- 119. Other production inspectors, samplers, and weighers
 - Production inspectors, checkers, and examiners (782, 787)
 - Production testers (783)
 - Production samplers and weighers (784)

**TRANSPORTATION AND MATERIAL MOVING
OCCUPATIONS**

- 120. Truck drivers
 - Truck drivers, heavy (8212, 8213)
 - Truck drivers, light (8214)
- 121. Driver-sales workers (8218)
- 122. Other motor vehicle operators
 - Supervisors, motor vehicle operators (8111)
 - Bus drivers (8215)
 - Taxicab drivers and chauffeurs (8216)
 - Parking lot attendants (874)
 - Motor transportation occupations, n.e.c. (8219)
- 123. Rail and water transportation occupations
 - Railroad conductors and yardmasters (8113)
 - Locomotive operating occupations (8232)
 - Railroad brake, signal, and switch operators (8233)
 - Rail vehicle operators, n.e.c. (8239)
 - Ship captains and mates, except fishing boats (Part 8241, 8242)
 - Sailors and deckhands (8243)
 - Marine engineers (8244)
 - Bridge, lock, and lighthouse tenders (8245)
- 124. Supervisors, material moving equipment operators (812)

**TRANSPORTATION AND MATERIAL MOVING
OCCUPATIONS—CON.**

- 125. Crane, hoist, and winch operators
 - Hoist and winch operators (8314)
 - Crane and tower operators (8315)
- 126. Excavating, grading, and dozer machine operators
 - Excavating and loading machine operators (8316)
 - Grader, dozer, and scraper operators (8317)
- 127. Other material moving equipment operators
 - Operating engineers (8312)
 - Longshore equipment operators (8313)
 - Industrial truck and tractor equipment operators (8318)
 - Miscellaneous material moving equipment operators (8319)

**HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND
LABORERS**

- 128. Supervisors; handlers, equipment cleaners, and laborers, n.e.c. (85)
- 129. Helpers, craft and production
 - Helpers, mechanics and repairers (863)

**HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND
LABORERS—CON.**

- Helpers, craft and production—Con.
 - Helpers, construction trades (8641-8645, 8648)
 - Helpers, surveyor (8646)
 - Helpers, extractive occupations (865)
 - Production helpers (861, 862)
- 130. Construction laborers (871)
- 131. Freight, stock, and material handlers
 - Garbage collectors (8722)
 - Stevedores (8723)
 - Stock handlers and baggers (8724)
 - Machine feeders and offbearers (8725)
 - Freight, stock, and material handlers, n.e.c. (8726)
- 132. Garage and service station occupations, and equipment cleaners
 - Garage and service station related occupations (873)
 - Vehicle washers and equipment cleaners (875)
- 133. Hand packers and packagers (8761)
- 134. Laborers, except construction (8769)

**List B. INTERMEDIATE INDUSTRIAL CLASSIFICATION (51 ITEMS) WITH COMPONENT DETAILED
CATEGORIES**

This list presents the relationship between the detailed industry classification used in table 4 and the intermediate industry classification used in tables 1-3. The industry groups marked with an asterisk (*) are not shown in the tables using the intermediate classification but can be derived by subtraction. Numbers in parentheses following the industry categories are the SIC definitions.

AGRICULTURE, FORESTRY, AND FISHERIES

- 1. Agriculture, forestry, and fisheries
 - Agricultural production, crops (01)
 - Agricultural production, livestock (02)
 - Agricultural services, except horticultural (07, except 078)
 - Horticultural services (078)
 - Forestry (08)
 - Fishing, hunting, and trapping (09)

MINING

- 2. Mining
 - Metal mining (10)
 - Coal mining (11, 12)
 - Crude petroleum and natural gas extraction (13)
 - Nonmetallic mining and quarrying, except fuel (14)

CONSTRUCTION

- 3. Construction (15, 16, 17)

MANUFACTURING

- 4. Food and kindred products
 - Meat products (201)
 - Dairy products (202)
 - Canned and preserved fruits and vegetables (203)
 - Grain mill products (204)
 - Bakery products (205)
 - Sugar and confectionery products (206)
 - Beverage industries (208)
 - Miscellaneous food preparations and kindred products (207, 209)
 - Not specified food industries
- 5. Textile mill products
 - Knitting mills (225)
 - Dyeing and finishing textiles, except wool and knit goods (226)

MANUFACTURING—CON.

- Textile mill products—Con.
 - Floor coverings, except hard surface (227)
 - Yarn, thread, and fabric mills (221-224, 228)
 - Miscellaneous textile mill products (229)
- 6. Apparel and other finished textile products
 - Apparel and accessories, except knit (231-238)
 - Miscellaneous fabricated textile products (239)
- 7. Paper and allied products
 - Pulp, paper, and paperboard mills (261-263, 266)
 - Miscellaneous paper and pulp products (264)
 - Paperboard containers and boxes (265)
- 8. Printing, publishing, and allied industries
 - Newspaper publishing and printing (271)
 - Printing, publishing, and allied industries, except newspapers (272-279)
- 9. Chemicals and allied products
 - Plastics, synthetics, and resins (282)
 - Drugs (283)
 - Soaps and cosmetics (284)
 - Paints, varnishes, and related products (285)
 - Agricultural chemicals (287)
 - Industrial and miscellaneous chemicals (281, 286, 289)
- 10. Rubber and miscellaneous plastics products
 - Tires and inner tubes (301)
 - Other rubber products, and plastics footwear and belting (302-304, 306)
 - Miscellaneous plastics products (307)
- 11. Other nondurable goods
 - Tobacco manufactures (21)
 - Petroleum refining (291)
 - Miscellaneous petroleum and coal products (295, 299)
 - Leather tanning and finishing (311)
 - Footwear, except rubber and plastic (313, 314)
 - Leather products, except footwear (315-317, 319)
- 12. Lumber and wood products, except furniture
 - Logging (241)

MANUFACTURING—CON.

- Lumber and wood products, except furniture—Con.
 - Sawmills, planing mills, and millwork (242, 243)
 - Wood buildings and mobile homes (245)
 - Miscellaneous wood products (244, 249)
- 13. Furniture and fixtures (25)
- 14. Stone, clay, glass, and concrete products
 - Glass and glass products (321-323)
 - Cement, concrete, gypsum, and plaster products (324, 327)
 - Structural clay products (325)
 - Pottery and related products (326)
 - Miscellaneous nonmetallic mineral and stone products (328, 329)
- 15. Primary iron and steel industries
 - Blast furnaces, steelworks, rolling and finishing mills (331)
 - Iron and steel foundries (332)
- 16. Primary nonferrous industries
 - Primary aluminum industries (3334, part 334, 3353-3355, 3361)
 - Other primary metal industries (3331-3333, 3339, part 334, 3351, 3356, 3357, 3362, 3369, 339)
- 17. Fabricated metal industries
 - Cutlery, handtools, and other hardware (342)
 - Fabricated structural metal products (344)
 - Screw machine products (345)
 - Metal forgings and stampings (346)
 - Ordnance (348)
 - Miscellaneous fabricated metal products (341, 343, 347, 349)
 - Not specified metal industries
- 18. Machinery, except electrical
 - Engines and turbines (351)
 - Farm machinery and equipment (352)
 - Construction and material handling machines (353)
 - Metalworking machinery (354)
 - Office and accounting machines (357, except 3573)
 - Electronic computing equipment (3573)
 - Machinery, except electrical, n.e.c. (355, 356, 358, 359)
 - Not specified machinery
- 19. Electrical machinery, equipment, and supplies
 - Household appliances (363)
 - Radio, T.V., and communication equipment (365, 366)
 - Electrical machinery, equipment, and supplies, n.e.c. (361, 362, 364, 367, 369)
 - Not specified electrical machinery, equipment, and supplies
- 20. Motor vehicles and motor vehicle equipment (371)
- 21. Aircraft, space vehicles, and parts (372, 376)
- 22. Other transportation equipment
 - Ship and boat building and repairing (373)
 - Railroad locomotives and equipment (374)
 - Cycles and miscellaneous transportation equipment (375, 379)
- 23. Other durable goods
 - Scientific and controlling instruments (381, 382)
 - Optical and health services supplies (383, 384, 385)
 - Photographic equipment and supplies (386)
 - Watches, clocks, and clockwork operated devices (387)
 - Not specified professional equipment
 - Toys, amusement, and sporting goods (394)
 - Miscellaneous manufacturing industries (39 except 394)
 - Not specified manufacturing industries

TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES

- 24. Railroads (40)
- 25. Trucking service and warehousing
 - Trucking service (421, 423)
 - Warehousing and storage (422)
- 26. Other transportation
 - Bus service and urban transit (41, except 412)
 - Taxicab service (412)
 - U.S. Postal Service (43)
 - Water transportation (44)
 - Air transportation (45)
 - Pipe lines, except natural gas (46)

TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES—CON.

- Other transportation—Con.
 - Services incidental to transportation (47)
- 27. Communications
 - Radio and television broadcasting (483)
 - Telephone (wire and radio) (481)
 - Telegraph and miscellaneous communication services (482, (489)
- 28. Utilities and sanitary services
 - Electric light and power (491)
 - Gas and steam supply systems (492, 496)
 - Electric and gas, and other combinations (493)
 - Water supply and irrigation (494, 497)
 - Sanitary services (495)
 - Not specified utilities

WHOLESALE TRADE

- 29. Wholesale trade
- 30. Groceries and farm products
 - Groceries and related products (514)
 - Farm products—raw materials (515)
 - * Other wholesale trade
 - Motor vehicles and equipment (501)
 - Furniture and home furnishings (502)
 - Lumber and construction materials (503)
 - Sporting goods, toys, and hobby goods (504)
 - Metals and minerals, except petroleum (505)
 - Electrical goods (506)
 - Hardware, plumbing and heating supplies (507)
 - Not specified electrical and hardware products
 - Machinery, equipment, and supplies (508)
 - Scrap and waste materials (5093)
 - Miscellaneous wholesale, durable goods (5094, 5099)
 - Paper and paper products (511)
 - Drugs, chemicals, and allied products (512, 516)
 - Apparel, fabrics, and notions (513)
 - Petroleum products (517)
 - Alcoholic beverages (518)
 - Farm supplies (5191)
 - Miscellaneous wholesale, nondurable goods (5194, 5198, 5199)
 - Not specified wholesale trade

RETAIL TRADE

- 31. General merchandise stores
 - Department stores (531)
 - Variety stores (533)
 - Miscellaneous general merchandise stores (539)
- 32. Food stores
 - Grocery stores (541)
 - Dairy products stores (545)
 - Retail bakeries (546)
 - Food stores, n.e.c. (542, 543, 544, 549)
- 33. Automotive dealers and gasoline stations
 - Motor vehicle dealers (551, 552)
 - Auto and home supply stores (553)
 - Gasoline service stations (554)
 - Miscellaneous vehicle dealers (555, 556, 557, 559)
- 34. Apparel and accessory stores
 - Apparel and accessory stores, except shoe (56 except 566)
 - Shoe stores (566)
- 35. Eating and drinking places (58)
- 36. Other retail trade
 - Lumber and building material retailing (521, 523)
 - Hardware stores (525)
 - Furniture and home furnishings stores (571)
 - Household appliances, TV, and radio stores (572, 573)
 - Drug stores (591)
 - Liquor stores (592)
 - Sporting goods, bicycles, and hobby stores (5941, 5945, 5946)

RETAIL TRADE—CON.

- Other retail trade—Con.
 - Book and stationery stores (5942, 5943)
 - Jewelry stores (5944)
 - Sewing, needlework, and piece goods stores (5949)
 - Mail order houses (5961)
 - Vending machine operators (5962)
 - Direct selling establishments (5963)
 - Fuel and ice dealers (598)
 - Retail florists (5992)
 - Miscellaneous retail stores (593, 5947, 5948, 5993, 5994, 5999)
 - Not specified retail trade

FINANCE, INSURANCE, AND REAL ESTATE

- 37. Banking and credit agencies
 - Banking (60)
 - Savings and loan associations (612)
 - Credit agencies, n.e.c. (61, except 612)
- 38. Insurance (63, 64)
- 39. Other finance and real estate
 - Security, commodity brokerage, and investment companies (62, 67)
 - Real estate, including real estate-insurance-law offices (65, 66)

BUSINESS AND REPAIR SERVICES

- 40. Business services
 - Advertising (731)
 - Services to dwellings and other buildings (734)
 - Commercial research, development, and testing labs (7391, 7397)
 - Personnel supply services (736)
 - Business management and consulting services (7392)
 - Computer and data processing services (737)
 - Detective and protective services (7393)
 - Business services, n.e.c. (732, 733, 735, 7394-7396, 7399)
- 41. Automotive repair and services
 - Automotive services, except repair (751, 752, 754)
 - Automotive repair shops (753)
- 42. Other repair services
 - Electrical repair shops (762, 7694)
 - Miscellaneous repair services (763, 764, 7692, 7699)

PERSONAL SERVICES

- 43. Hotels and lodging places
 - Hotels and motels (701)
 - Lodging places, except hotels and motels (702, 703, 704)
- 44. Other personal services
 - Private households (88)
 - Laundry, cleaning, and garment services (721)
 - Beauty shops (723)
 - Barber shops (724)
 - Funeral service and crematories (726)
 - Shoe repair shops (725)

PERSONAL SERVICES—CON.

- Other personal services—Con.
 - Dressmaking shops (Part 729)
 - Miscellaneous personal services (722, part 729)

ENTERTAINMENT AND RECREATION SERVICES

- 45. Entertainment and recreation services
 - Theaters and motion pictures (78, 792)
 - Bowling alleys, billiard and pool parlors (793)
 - Miscellaneous entertainment and recreation services (791, 794, 799)

PROFESSIONAL AND RELATED SERVICES

- 46. Hospitals (806)
- 47. Health services, except hospitals
 - Offices of physicians (801, 803)
 - Offices of dentists (802)
 - Offices of chiropractors (8041)
 - Offices of optometrists (8042)
 - Offices of health practitioners, n.e.c. (8049)
 - Nursing and personal care facilities (805)
 - Health services, n.e.c. (807, 808, 809)
- 48. Educational services
 - Elementary and secondary schools (821)
 - Colleges and universities (822)
 - Business, trade, and vocational schools (824)
 - Libraries (823)
 - Educational services, n.e.c. (829)
- 49. Social services, religious and membership organizations
 - Job training and vocational rehabilitation services (833)
 - Child day care services (835)
 - Residential care facilities, without nursing (836)
 - Social services, n.e.c. (832, 839)
 - Religious organizations (866)
 - Membership organizations (861-865, 869)
- 50. Other professional and related services
 - Legal services (81)
 - Museums, art galleries, and zoos (84)
 - Engineering, architectural, and surveying services (891)
 - Accounting, auditing, and bookkeeping services (893)
 - Noncommercial educational and scientific research (892)
 - Miscellaneous professional and related services (899)

PUBLIC ADMINISTRATION

- 51. Public administration
 - Executive and legislative offices (911-913)
 - General government, n.e.c. (919)
 - Justice, public order, and safety (92)
 - Public finance, taxation, and monetary policy (93)
 - Administration of human resources programs (94)
 - Administration of environmental quality and housing programs (95)
 - Administration of economic programs (96)
 - National security and international affairs (97)

Appendix B.—General Enumeration and Processing Procedures

USUAL PLACE OF RESIDENCE. . .	B-1
Armed Forces.	B-1
Crews of Merchant Vessels	B-1
Persons Away at School	B-1
Persons in Institutions	B-1
Persons Away From Their Residence on Census Day	B-1
Americans Abroad.	B-2
Citizens of Foreign Countries. . .	B-2
DATA COLLECTION PROCEDURES.	B-2
PROCESSING PROCEDURES. . . .	B-2

USUAL PLACE OF RESIDENCE

In accordance with census practice dating back to the first U.S. census in 1790, each person enumerated in the 1980 census was counted as an inhabitant of his or her "usual place of residence," which is generally construed to mean the place where the person lives and sleeps most of the time. This place is not necessarily the same as the person's legal residence or voting residence. In the vast majority of cases, however, the use of these different bases of classification would produce substantially the same statistics, although there might be appreciable differences for a few areas.

The implementation of this practice has resulted in the establishment of residence rules for certain categories of persons whose usual place of residence is not immediately apparent. Furthermore, this practice means that persons were not always counted as residents of the place where they happened to be staying on Census Day (April 1). Persons without a usual place of residence, however, were counted where they happened to be staying.

Armed Forces

Members of the Armed Forces living on a military installation were counted, as in every previous census, as residents of the area in which the installation was located; members of the Armed Forces not living on a military installation were counted as residents of the area in which

they were living. Family members of Armed Forces personnel were counted where they were living on Census Day (i.e., with the Armed Forces personnel or at another location, as the case might be).

Each Navy ship was attributed to the municipality that the Department of the Navy designated as its homeport, except for those ships which were deployed to the 6th or 7th Fleet on Census Day. As was done in the 1970 census, naval personnel aboard deployed ships were defined in the 1980 census as part of the overseas population, because deployment to the 6th or 7th Fleet implies a long-term overseas assignment.

In homeports with fewer than 1,000 naval personnel assigned to ships, the crews were counted aboard the ship. In homeports with 1,000 or more naval personnel assigned to ships, the naval personnel who indicated that they had a usual residence within 50 miles of the homeport of their ship were attributed to that residence.

When a homeport designated by the Navy was contained in more than one municipality, ships homeported and berthed there on Census Day were assigned by the Bureau of the Census to the municipality in which the land immediately adjacent to the dock or pier was actually located. Other ships attributed by the Navy to that homeport, but which were not physically present and not deployed to the 6th or 7th Fleet on Census Day, were allocated to the municipality named on the Navy's homeport list.

Crews of Merchant Vessels

Shipboard Census Reports were mailed to crews of merchant vessels through the ships' respective owner-operators based on lists of U.S. flag merchant vessels obtained from the Maritime Administration, U.S. Department of Commerce.

If the ship was berthed in a U.S. port on Census Day, the crew was enumerated as of that port. If the ship was

not berthed in a U.S. port but was inside the territorial waters of the United States, the crew was enumerated as of (a) the port of destination if that port was inside the United States or (b) the homeport of the ship if its port of destination was outside the United States. Crews of U.S. flag vessels which were outside U.S. territorial waters on Census Day and crews of vessels flying a foreign flag were not enumerated in the 1980 census.

Persons Away at School

College students were counted as residents of the area in which they were living while attending college, as they have been since 1950. However, children in boarding schools below the college level were counted at their parental home.

Persons in Institutions

Inmates of institutions, who ordinarily live there for considerable periods of time, were counted as residents of the area where the institution was located. Patients in short-term wards (general, maternity, etc.) of hospitals were counted at their usual place of residence; if they had no usual place of residence, they were counted at the hospital.

Persons Away From Their Residence on Census Day

Persons in hotels, motels, etc., on the night of March 31, 1980, were requested to fill out a census form for assignment of their census information back to their homes if they indicated that no one was at home to report them in the census. A similar approach was used for persons visiting in private residences, as well as for Americans who left the United States during March 1980 via major intercontinental air or ship carriers for temporary travel abroad. In addition, information on persons away from their usual place of residence was obtained from other members of their families, resident managers, neighbors, etc. If an entire household was expected to be

away during the whole period of the enumeration, information on that household was obtained from neighbors. A matching process was used to eliminate duplicate reports for persons who reported for themselves while away from their usual residence and who were also reported at this usual residence by someone else.

A special enumeration was conducted in such facilities as missions, flophouses, jails, detention centers, etc., on the night of April 6, 1980, and persons enumerated therein were counted as residents of the area in which the establishment was located.

Americans Abroad

Americans who were overseas for an extended period (in the Armed Forces, working at civilian jobs, studying in foreign universities, etc.) were not included in the population of any State or the District of Columbia. On the other hand, Americans who were temporarily abroad on vacations, business trips, and the like were counted at their usual residence in the United States.

Citizens of Foreign Countries

Citizens of foreign countries having their usual residence (legally or illegally) in the United States on Census Day, including those working here (but not living at an embassy, ministry, legation, chancellery, or consulate) and those attending school (but not living at an embassy, etc.), were included in the enumeration, as were members of their families living with them. However, citizens of foreign countries temporarily visiting or traveling in the United States or living on the premises of an embassy, etc., were not enumerated in the 1980 census.

DATA COLLECTION PROCEDURES

The 1980 census was conducted primarily through self-enumeration. A census questionnaire was delivered by postal carriers to every housing unit several days before Census Day, April 1, 1980. This questionnaire included explanatory information and was accompanied by an instruction guide. Spanish-language versions of the questionnaire and instruction guide were available on request. The questionnaire

was also available in narrative translation in 32 languages.

In most areas of the United States, altogether containing about 95 percent of the population, the householder was requested to fill out and mail back the questionnaire on Census Day. Approximately 83 percent of these households returned their forms by mail. Households that did not mail back a form and vacant housing units were visited by an enumerator. Households that returned a form with incomplete or inconsistent information that exceeded a specified tolerance were contacted by telephone or, if necessary, by a personal visit, to obtain the missing information.

In the remaining (mostly sparsely settled) area of the country, which contained about 5 percent of the population, the householder was requested to fill out the questionnaire and hold it until visited by an enumerator. Incomplete and unfilled forms were completed by interview during the enumerator's visit. Vacant units were enumerated by a personal visit and observation.

Each housing unit in the country received one of two versions of the census questionnaire: a short-form questionnaire containing a limited number of basic population and housing questions or a long-form questionnaire containing these basic questions as well as a number of additional questions. A sampling procedure was used to determine those units which were to receive the long-form questionnaire. Two sampling rates were employed. For most of the country, one in every six housing units (about 17 percent) received the long form or sample questionnaire; in counties, incorporated places and minor civil divisions estimated to have fewer than 2,500 inhabitants, every other housing unit (50 percent) received the sample questionnaire to enhance the reliability of sample data in small areas.

Special questionnaires were used for the enumeration of persons in group quarters such as colleges and universities, hospitals, prisons, military installations, and ships. These forms contained the population questions but did not include any housing questions. In addition to the regular census questionnaires, the Supplementary Questionnaire for American Indians was used in conjunction with the short form on Federal and State reservations and in the historic areas of

Oklahoma (excluding urbanized areas) for households that had at least one American Indian, Eskimo, or Aleut household member.

PROCESSING PROCEDURES

The 1980 census questionnaires were processed in a manner similar to that for the 1970 and 1960 censuses. They were designed to be processed electronically by the Film Optical Sensing Device for Input to Computer (FOSDIC). For most items on the questionnaire, the information supplied by the respondent or obtained by the enumerator was indicated by marking the answers in predesignated positions that would be "read" by FOSDIC from a microfilm copy of the questionnaire and transferred onto computer tape with no intervening manual processing. The computer tape did not include information on individual names and addresses.

The data processing was performed in two stages. For 100-percent data, all short forms, and pages 2 and 3 of the long forms (which have the same questions as the short form), were microfilmed, "read" by FOSDIC, and transferred onto computer tape for tabulation. For the sample data, the long form (or sample) questionnaires were processed through manual coding operations since some questions required the respondent to provide write-in entries which could not be read by FOSDIC. Census Bureau coders assigned alphabetical or numerical codes to the write-in answers in FOSDIC readable code boxes on each questionnaire. After all coding was completed, the long forms were microfilmed, and the film was "read" by FOSDIC and transferred onto computer tape.

The tape containing the information from the questionnaires was processed on the Census Bureau's computers through a number of editing and tabulation steps. Among the products of this operation were computer tapes from which the tables in this report (and most others in the 1980 census publications) were prepared on phototype-setting equipment at the Government Printing Office.

A more detailed description of the data collection and processing procedures can be obtained from the 1980 Census of Population and Housing, *Users' Guide*, PHC80-R1.

Appendix C.—Accuracy of the Data

INTRODUCTION	C-1
SAMPLE DESIGN	C-1
ERRORS IN THE DATA	C-1
Calculation of Standard Errors	C-2
Totals and Percentages	C-2
Differences	C-2
Means	C-2
Medians	C-2
Confidence Intervals	C-3
Use of Tables to Compute Standard Errors	C-3
ESTIMATION PROCEDURE	C-3
CONTROL OF NONSAMPLING ERROR	C-5
Undercoverage	C-5
Respondent and Enumerator Error	C-5
Processing Error	C-6
Nonresponse	C-6
EDITING OF UNACCEPTABLE DATA	C-6

INTRODUCTION

The data presented in this publication are based on the 1980 census sample. The data are estimates of the actual figures that would have resulted from a complete count. Estimates can be expected to vary from the complete count result because they are subject to two basic types of error—sampling and nonsampling. The sampling error in the data arises from the selection of persons and housing units to be included in the sample. The nonsampling error, which affects both sample and complete count data, is the result of all other errors that may occur during the collection and processing phases of the census. A more detailed discussion of both sampling and nonsampling error and a description of the estimation procedure are given in this appendix.

SAMPLE DESIGN

While every person and housing unit in the 1980 census was enumerated on a questionnaire that requested certain basic demographic information (e.g., age, race, relationship), a sample of persons and

housing units was enumerated on a questionnaire that requested additional information. The basic sampling unit for the 1980 census was the housing unit, including all occupants. For persons living in group quarters, the sampling unit was the person. Two sampling rates were employed. In counties, incorporated places, and minor civil divisions estimated to have fewer than 2,500 persons (based on pre-census estimates), one-half of all housing units and persons in group quarters were to be included in the sample. In all other areas one-sixth of the housing units or persons in group quarters were sampled. The purpose of this scheme was to provide relatively more reliable estimates for small areas. When both sampling rates were taken into account across the Nation, approximately 19 percent of the Nation's housing units were included in the census sample.

The sample designation method depended on the data collection procedures. In areas containing about 95 percent of the population, the census was taken by the mailout/mailback procedure. For these areas, the Bureau of the Census either purchased a commercial mailing list which was updated and corrected by Census Bureau field staff, or prepared a mailing list by canvassing and listing each address in the area prior to Census Day. These lists were computerized, and every sixth unit (for 1-in-6 areas) or every second unit (for 1-in-2 areas) was designated as a sample unit by computer. Both of these lists were also corrected by the Post Office.

In non-mailout/mailback areas, a blank listing book with designated sample lines (every sixth or every second line) was prepared for the enumerator. Beginning about Census Day, the enumerator systematically canvassed the area and listed all housing units in the listing book in the order they were encountered. Completed questionnaires, including sample information for any housing unit which was listed on a designated sample line, were collected.

In both types of data collection pro-

cedure areas, an enumerator was responsible for a small geographic area known as an enumeration district, or ED. An ED usually represented the average workload area for one enumerator.

In order to reduce the cost of processing, a scheme was designed, while the sample questionnaires were being processed, to select a subsample of questionnaires on which the place of work and migration data items would be coded. The sample questionnaires were processed by work units consisting of 1980 census ED's. In work units (ED's) where the place of work and migration data items had not yet been coded, every other sample questionnaire within the work unit was selected for these coding operations. In work units where the place of work and migration data items already had been coded, all sample questionnaires were included in the tabulation.

ERRORS IN THE DATA

Since the data in this publication are based on a sample, they may differ somewhat from complete count figures that would have been obtained if all persons within housing units, and persons living in group quarters had been enumerated using the same questionnaires, instructions, enumerators, etc. The deviation of a sample estimate from the average of all possible samples is called the sampling error. The standard error of a survey estimate is a measure of the variation among the estimates from the possible samples and thus is a measure of the precision with which an estimate from a particular sample approximates the average result of all possible samples. The sample estimate and its estimated standard error permit the construction of interval estimates with prescribed confidence that the interval includes the average result of all possible samples. The method of calculating standard errors and confidence intervals for the data in this report is given below.

In addition to the variability which

arises from the sampling procedures, both sample data and complete-count data are subject to nonsampling error. Nonsampling error may be introduced during each of the many extensive and complex operations used to collect and process census data. For example, operations such as editing, reviewing, or handling questionnaires may introduce error into the data. A more detailed discussion of the sources of nonsampling error is given in the section on "Control of Nonsampling Error" in this appendix.

Nonsampling error may affect the data in two ways. Errors that are introduced randomly will increase the variability of the data and should therefore be reflected in the standard error. Errors that tend to be consistent in one direction will make both sample and complete-count data biased in that direction. For example, if respondents consistently tend to under-report their income, then the resulting counts of households or families by income category will be skewed toward the lower income categories. Such biases are not reflected in the standard error.

Calculation of Standard Errors

Totals and Percentages—Tables A through C in this appendix contain the information necessary to calculate the standard errors of sample estimates in this report. In order to perform this calculation, it is necessary to know the unadjusted standard error for the characteristic, given in table A or B, that would result under a simple random sample design (of persons, families, or housing units) and estimation technique; and the adjustment factor for the particular characteristic estimated, given in table C. The adjustment factors reflect the effects of the actual sample design and complex ratio estimation procedure used for the 1980 census.

To calculate the approximate standard error of an estimate for a geographic area, follow the steps given below:

- a. Obtain the unadjusted standard error from table A or B (or from the formula given below the table) for the estimated total or percentage, respectively.

- b. Use table C to obtain the factor for the characteristic (e.g., insurance, forestry). Multiply the unadjusted standard error by this factor. If the estimate is a cross-tabulation of more than one characteristic, use the largest factor.

As is evident from the formulas below tables A and B, the unadjusted standard errors of zero estimates or of very small estimated totals or percentages approach zero. This is also the case for very large percentages or estimated totals that are close to the size of the tabulation areas to which they correspond. These estimated totals and percentages are, nevertheless, still subject to sampling and nonsampling variability, and an estimated standard error of zero (or a very small standard error) is not appropriate.

For estimated percentages that are less than 2 or greater than 98, use the *unadjusted* standard errors in table B that appear in the "2 or 98" row. For an estimated total that is less than 50 or within 50 of the total size of the tabulation area, use an *unadjusted* standard error of 16.

An illustration of the use of the tables is given in a later section of this appendix.

Differences—The standard errors estimated from these tables are not directly applicable to differences between two sample estimates. In order to estimate the standard error of a difference, the tables are to be used somewhat differently in the following three situations:

- a. For the difference between a sample estimate and a complete-count value, use the standard error of the sample estimate.
- b. For the difference between (or sum of) two sample estimates, the appropriate standard error is approximately the square root of the sum of the two individual standard errors squared; that is, for standard errors Se_x and Se_y of estimates x and y :

$$Se_{(x+y)} = Se_{(x-y)} = \sqrt{(Se_x)^2 + (Se_y)^2}$$

This method, however, will under estimate (overestimate) the standard error if the two items in a sum are highly positively (negatively) correlated or if the two items in a difference are highly negatively (positively) correlated. This method may also be used for the difference between (or sum of) sample estimates from two censuses or between a census sample and another survey. The standard error for estimates not based on the 1980 census sample must be obtained from an appropriate source outside of this publication.

- c. For the difference between two estimates, one of which is a subclass of the other, use the tables directly where the calculated difference is the estimate of interest.

Means—The standard error of a mean depends upon the variability of the distribution on which the mean is based, the size of the sample, the sample design (e.g., the use of households as a sampling unit), and the estimation procedure used.

An approximation to the standard error of the mean may be obtained as follows: compute the variance of the distribution on which the mean is based; multiply this value by five and divide the product by the total count of units in the distribution; obtain the square root of this quotient and multiply the result by the adjustment factor from table C that is appropriate for the characteristic on which the mean is based.

Medians—For the standard error of a median of a characteristic, it is necessary to examine the distribution from which the median is derived, as the size of the base and the distribution itself affect the standard error. An approximate method is given here. As the first step, compute one-half of the number on which the median is based (refer to this result as $N/2$). Treat $N/2$ as if it were an ordinary estimate and obtain its standard error as instructed above using tables A and C. Compute the desired confidence interval about $N/2$. Starting with the lowest value of the characteristic, cumulate the frequencies in each category of the characteristic until the sum equals or

first exceeds the lower limit of the confidence interval about $N/2$. By linear interpolation, obtain a value of the characteristic corresponding to this sum. This is the lower limit of the confidence interval of the median. In a similar manner, cumulate frequencies starting from the highest value of the characteristic until the sum equals or exceeds the count in excess of the upper limit of the interval about $N/2$. Interpolate as before to obtain the upper limit of the confidence interval for the estimated median.

Confidence Intervals

A sample estimate and its estimated standard error may be used to construct confidence intervals about the estimate. These intervals are ranges that will contain the average value of the estimated characteristic that results over all possible samples with a known probability. For example, if all possible samples that could result under the 1980 census sample design were independently selected and surveyed under the same conditions, and if the estimate and its estimated standard error were calculated for each of these samples, then:

- (1) Approximately 68 percent of the intervals from one estimated standard error below the estimate to one estimated standard error above the estimate would contain the average result from all possible samples; and
- (2) Approximately 95 percent of the intervals from two estimated standard errors below the estimate to two estimated standard errors above the estimate would contain the average result from all possible samples.

The intervals are referred to as 68 percent and 95 percent confidence intervals, respectively.

The average value of the estimated characteristic that could be derived from all possible samples is or is not contained in any particular computed interval. Thus we cannot make the statement that the average value has a certain probability of falling between the limits of the calculated confidence interval. Rather, one can say with a specified probability or confi-

dence that the calculated confidence interval includes the average estimate from all possible samples (approximately the complete-count value).

Confidence intervals may also be constructed for the difference between two sample figures. This is done by computing the difference between these figures, obtaining the standard error of the difference (using the formula given earlier), and then forming a confidence interval for this estimated difference as above. One can then say with specified confidence that this interval includes the difference that would have been obtained by averaging the results from all possible samples.

The estimated standard errors given in this report do not include all portions of the variability due to nonsampling error that may be present in the data. Thus, the standard errors calculated represent a lower bound of the total error. As a result, confidence intervals formed using these estimated standard errors may not meet the stated levels of confidence (i.e., 68 or 95 percent). Thus, some care must be exercised in the interpretation of the data in this publication based on the estimated standard errors.

For more information on confidence intervals and nonsampling error, see any standard sampling theory text.

Use of Tables to Compute Standard Errors

See appendix D of PHC80-3, *Summary Characteristics for Governmental Units and Standard Metropolitan Statistical Areas*, or PC80-1-C, *General Social and Economic Characteristics*, for examples showing the computation of standard errors and formation of confidence intervals.

ESTIMATION PROCEDURE

The estimates which appear in this publication were obtained from an iterative ratio estimation procedure which resulted in the assignment of a weight to each sample person or housing unit record. For any given tabulation area, a characteristic total was estimated by summing the weights assigned to the persons or housing units in the tabulation area which possessed the characteristic. Estimates of family or household characteristics were

based on the weights assigned to the family members designated as householders. Each sample person or housing unit record was assigned exactly one weight to be used to produce estimates of all characteristics. For example, if the weight given to a sample person or housing unit had the value five, all characteristics of that person or housing unit would be tabulated with a weight of five. The estimation procedure, however, did assign weights which vary from person to person or housing unit to housing unit.

The estimation procedure used to assign the weights was performed in geographically defined "weighting areas." Weighting areas were generally formed of adjoining portions of geography, which closely agreed with census tabulation areas within counties. Weighting areas were required to have a minimum sample of 400 persons. Weighting areas were never allowed to cross state or county boundaries. In small counties with a sample count of less than 400 persons, the minimum required sample condition was relaxed to permit the entire county to become a weighting area.

Within a weighting area, the ratio estimation procedure for persons was performed in three stages. For persons the first stage employed 17 household-type groups. The second stage used two groups: householders and nonhouseholders. The third stage could potentially use 160 age-sex-race-Spanish origin groups. The stages were as follows:

PERSONS

Stage I—Type of Household

Group	Persons in Housing Units With a Family With Own Children Under 18
1	2 persons in housing unit
2	3 persons in housing unit
3	4 persons in housing unit
4	5 to 7 persons in housing unit
5	8 or more persons in housing unit
	Persons in Housing Units With a Family Without Own Children Under 18
6-10	2 persons in housing unit through 8 or more persons in housing unit

Persons in All Other Housing Units

- 11 1 person in housing unit
 12-16 2 persons in housing unit through 8 or more persons in housing unit

17 *Persons in Group Quarters*Stage II—Householder/
Nonhouseholder

- Group
 1 Householder
 2 Nonhouseholder (including persons in group quarters)

Stage III—Age/Sex/Race/Spanish
OriginGroup *White Race**Persons of Spanish Origin**Male*

- 1 0 to 4 years of age
 2 5 to 14 years of age
 3 15 to 19 years of age
 4 20 to 24 years of age
 5 25 to 34 years of age
 6 35 to 44 years of age
 7 45 to 64 years of age
 8 65 years of age or older

Female

- 9-16 Same age categories as groups 1 to 8

Persons Not of Spanish Origin

Same age and sex categories as groups 1 to 16

17-32

Black Race

- 33-64 Same age-sex-Spanish origin categories as groups 1 to 32

Asian, Pacific Islander Race

- 65-96 Same age-sex-Spanish origin categories as groups 1 to 32

American Indian, Eskimo, or Aleut Race

- 97-128 Same age-sex-Spanish origin categories as groups 1 to 32

Other Race (includes those races not listed above)

- 129-160 Same age-sex-Spanish origin categories as groups 1 to 32

Within a weighting area, the first step in the estimation procedure was to assign each sample person record an initial weight. This weight was approximately equal to the inverse of the probability of selecting a person for the census sample.

The next step in the estimation procedure was to combine, if necessary, the groups in each of the three stages prior to the repeated ratio estimation in order to increase the reliability of the ratio estimation procedure. For the first and second stages, any group that did not meet certain criteria concerning the unweighted sample count or the ratio of the complete count to the initially weighted sample count, was combined, or collapsed, with another group in the same stage according to a specified collapsing pattern. At the third stage, the "other" race category was collapsed with the "White" race category before the above collapsing criteria as well as an additional criterion concerning the number of complete count persons in each category were applied.

As the final step, the initial weights underwent three stages of ratio adjustment which used the groups listed above. At the first stage, the ratio of the complete census count to the sum of the initial weights for each sample person was computed for each stage I group. The initial weight assigned to each person in a group was then multiplied by the stage I group ratio to produce an adjusted weight. In stage II, the stage I adjusted weights were again adjusted by the ratio of the complete census count to the sum of the stage I weights for sample persons in each stage II group. Finally, the stage II weights were adjusted at stage III by the ratio of the complete census count to the sum of the stage II weights for sample persons in each stage III group. The three stages of adjustment were performed twice (two iterations) in the order given above. The weights obtained from the second iteration for stage III were assigned to the sample person records. However, to avoid complications in rounding for tabulated data, only whole number weights were assigned. For example, if the final weight for the persons in a particular group was 7.2, then one-fifth of the sample persons in this group were randomly assigned a weight of 8 and the remaining four-fifths received a weight of 7.

Separate weights were derived for tabulating the place of work and migration data items. The weights were obtained by adjusting the weight derived above for persons on questionnaires selected for coding by the reciprocal of the ED coding rate and a ratio adjustment to ensure that the sum of the weights and the complete count total population figure would agree.

The ratio estimation procedure for housing units was essentially the same as that for persons. The major difference was that the occupied housing unit ratio estimation procedure was done in two stages and the vacant housing unit ratio estimation procedure was done in one stage. The first stage for occupied housing units employed 16 household-type categories and the second stage could potentially use 190 tenure-race-Spanish origin-value/rent groups. For vacant housing units, three groups were utilized. The stages for the ratio estimation for housing units were as follows:

OCCUPIED HOUSING UNITS

Stage I—Type of Household

Group *Housing Units With a Family With Own Children Under 18*

- 1 2 persons in housing unit
 2 3 persons in housing unit
 3 4 persons in housing unit
 4 5 to 7 persons in housing unit
 5 8 or more persons in housing unit

6-10 *Housing Units With a Family Without Own Children Under 18*

- 2 persons in housing unit through 8 or more persons in housing unit

All Other Housing Units

- 11 1 person in housing unit
 12-16 2 persons in housing unit through 8 or more persons in housing unit

Stage II—Tenure/Race and Origin
of Householder/Value or RentGroup *Owner*

White Race (householder)
Persons of Spanish Origin (householder)
Value of House
 \$0 to \$9,999

1

2	\$10,000 to \$19,999	<i>American Indian, Eskimo</i>
3	\$20,000 to \$24,999	<i>or Aleut Race</i>
4	\$25,000 to \$49,999	147-168 Same rent—Spanish origin
5	\$50,000 to \$99,999	categories as groups 81 to
6	\$100,000 to \$149,999	102
7	\$150,000+	
8	Other Owners	<i>Other Race (includes those</i>
		<i>races not listed above)</i>
	<i>Persons Not of Spanish</i>	169-190 Same rent—Spanish origin
	<i>Origin</i>	categories as groups 81 to
9-16	Same value categories as	102
	groups 1 to 8	
	<i>Black Race</i>	
17-32	Same value—Spanish origin	
	categories as groups 1 to 16	
	<i>Asian, Pacific Islander Race</i>	
33-48	Same value—Spanish origin	
	categories as groups 1 to 16	
	<i>American Indian, Eskimo</i>	
	<i>or Aleut Race</i>	
49-64	Same value—Spanish origin	
	categories as groups 1 to 16	
	<i>Other Race (includes those</i>	
	<i>races not listed above)</i>	
65-80	Same value—Spanish origin	
	categories as groups 1 to 16	
	<i>Renter</i>	
	<i>White Race</i>	
	<i>Persons of Spanish Origin</i>	
	<i>Rent Categories</i>	
81	\$1 to \$59	
82	\$60 to \$99	
83	\$100 to \$149	
84	\$150 to \$199	
85	\$200 to \$249	
86	\$250 to \$299	
87	\$300 to \$399	
88	\$400 to \$499	
89	\$500+	
90	Other Renter	
91	No Cash Rent	
	<i>Persons not of Spanish</i>	
	<i>origin</i>	
92-102	Same rent categories as	
	groups 81 to 91	
	<i>Black Race</i>	
103-124	Same rent—Spanish origin	
	categories as groups 81 to	
	102	
	<i>Asian, Pacific Islander Race</i>	
125-146	Same rent—Spanish origin	
	categories as groups 81 to	
	102	

VACANT HOUSING UNITS

<i>Group</i>	
1	<i>Vacant for Rent</i>
2	<i>Vacant for Sale</i>
3	<i>Other Vacant</i>

The estimates produced by this procedure realize some of the gains in sampling efficiency that would have resulted if the population had been stratified into the ratio estimation groups before sampling, and the sampling rate had been applied independently to each group. The net effect is a reduction in both the standard error and the possible bias of most estimated characteristics to levels below what would have resulted from simply using the initial (unadjusted) weight. A by-product of this estimation procedure is that the estimates from the sample will, for the most part, be consistent with the complete-count figures for the population and housing unit groups used in the estimation procedure.

CONTROL OF NONSAMPLING ERROR

As mentioned above, nonsampling error is present in both sample and complete count data. If left unchecked, this error could introduce serious bias into the data, the variability of which could increase dramatically over that which would result purely from sampling. While it is impossible to completely eliminate nonsampling error from an operation as large and complex as the 1980 census, the Bureau of the Census attempted to control the sources of such error during the collection and processing operations. The primary sources of nonsampling error and the programs instituted for control of this error are described below. The success of these programs, however, was contingent

upon how well the instructions were actually carried out during the census. To the extent possible, both the effects of these programs and the amount of error remaining after their application will be evaluated.

Undercoverage—It is possible for some housing units or persons to be entirely missed by the census. This undercoverage of persons and housing units can introduce biases into the data. Several extensive programs were developed to focus on this important problem.

- The Postal Service reviewed mailing lists and reported housing unit addresses which were missing, undeliverable, or duplicated in the listings.
- The purchased commercial mailing list was updated and corrected by a complete field review of the list of housing units during a prec canvass operation.
- A record check was performed to reduce the undercoverage of individual persons in selected areas. Independent lists of persons, such as driver's license holders, were matched with the household rosters in the census listings. Persons not matched to the census rosters were followed up and added to the census counts if they were found to have been missed.
- A recheck of units initially classified as vacant or nonexistent was utilized to further reduce the undercoverage of persons.

More extensive discussions of programs developed to reduce undercoverage will be published as the analyses of those programs are completed.

Respondent and Enumerator Error—The person answering the questionnaire or responding to the questions posed by an enumerator could serve as a source of error by offering incorrect or incomplete information. To reduce this source of error, questions were phrased as clearly as possible based on precensus tests, and detailed instructions for completing the questionnaire were provided to each household. In addition, respondents' answers were edited for completeness and consistency and followed up as necessary. For example, if labor force items were incomplete for a person 15 years or older, field edit procedures would recognize the

situation and a followup attempt to obtain the information would be made.

The enumerator may misinterpret or otherwise incorrectly record information given by a respondent; may fail to collect some of the information for a person or household; or may collect sample data for households that were not designated as part of the sample. To control these problems, the work of enumerators was carefully monitored. Field staff were prepared for their tasks by using standardized training packages which included experience in using census materials. A sample of the households interviewed by enumerators for nonresponse was reinterviewed to control for the possibility of data for fabricated persons being submitted by enumerators. Also, the estimation procedure was designed to control for biases that would result from the collection of data from households not designated for the sample.

Processing Error—The many phases of processing the census represent potential sources for the introduction of nonsampling error. The processing of the census questionnaires includes the field editing, followup, and transmittal of completed questionnaires; the manual coding of write-in responses; and the electronic data processing. The various field, coding, and computer operations undergo a number of quality control checks to insure their accurate application.

Nonresponse—Nonresponse to particular questions on the census questionnaire allows for the introduction of bias into the data, since the characteristics of the nonrespondents have not been observed and may differ from those reported by respondents. As a result, any allocation procedure using respondent data may not completely reflect this difference either at the element level (individual person or housing unit) or on the average. Some protection against the introduction of large biases is afforded by minimizing nonresponse. In the census, nonresponse was substantially reduced during the field operations, by the various edit and followup operations aimed at obtaining a response for every question. Characteristics, for the nonresponses remaining after these operations, were allocated by the computer using reported data for a person or housing unit with similar

characteristics. The allocation procedure is described in more detail below.

EDITING OF UNACCEPTABLE DATA

The objective of the processing operation is to produce a set of statistics that describes the population as accurately and clearly as possible. To meet this objective, certain unacceptable entries were edited.

In the field, questionnaires were reviewed for omissions and certain inconsistencies by a census clerk or an enumerator and, if necessary, a followup was made to obtain missing information, or to correct inconsistencies. In addition, a hand edit of questionnaires was done in the central processing offices. As a rule, however, editing was performed by hand only when it could not be done effectively by machine.

As one of the first steps in machine editing, the configuration of marks on the questionnaire column was scanned electronically to determine whether it contained information for a person or merely spurious marks. If the column contained entries for at least two of the basic characteristics (relationship, sex, race, age, marital status, Spanish origin), the inference was made that the marks represented a person. In cases in which two or more basic characteristics were available for only a portion of the people in the unit, other information on the questionnaire provided by an enumerator was used to determine the total number of persons. Names were not used as a criterion of the presence of a person because the electronic scanning did not distinguish any entry in the name space.

After the field operations were completed, it was found (as expected) that some questionnaires were not fully filled out or that for a particular person or housing unit, certain items of information were inconsistent with other information on the questionnaire. As in previous censuses, allocations or the assignment of acceptable entries were used to replace blanks or unacceptable entries. The allocation procedure was based on using information reported for another person or housing unit with related characteristics similar to those of the person or housing unit for whom allocation was necessary. Thus, a person who was reported as a 20-year-old

son of the householder, but for whom marital status was not reported, was assigned the same marital status as that of the last son processed in the same age group by the computer. The assignment of acceptable codes in place of blanks or unacceptable entries, is designed to enhance the usefulness of the data.

The 1980 census data on the economic questions such as industry, occupation, class of worker, work experience, and income were processed using an allocation system which assigned values to missing entries in these questions, as necessary, from a single respondent with similar socioeconomic characteristics. In the 1970 census, allocation of each of the economic items was conducted separately; thus, assigned values could come from more than one respondent.

Prior to the allocation of all economic variables, the computer records were sorted according to such characteristics as sex, race and ethnicity, household relationship, years of school completed, and geographic area. The actual allocation operation was implemented in the following manner:

1. The computer stored in a series of matrices reported economic information of persons by selected characteristics such as age, disability status, presence of children, veteran's status, employment status, occupation, industry, class of worker status, work experience in 1979, level of earnings in 1979, and value of housing unit or monthly rent.
2. The stored entries in the various matrices were retained in the computer only until a succeeding person having the same set of characteristics was processed through the computer. Then the economic question responses of the succeeding person were stored in place of those previously stored.
3. When one or more of the economic questions was not reported, or the entry was unacceptable, the variables assigned to this person were those stored in the appropriate matrix for the last person who otherwise had the same set of characteristics.

The use of this single allocation system insured that the distribution of economic variable assignments would correspond closely to the entries of persons who had actually reported in the census.

Table A. **Unadjusted Standard Errors for Estimated Totals**

[Based on a 1-in-6 simple random sample]

Estimated Total ^{1/}	Size of publication area ^{2/}													
	500	1 000	2 500	5 000	10 000	25 000	50 000	100 000	250 000	500 000	1 000 000	5 000 000	10 000 000	25 000 000
50.....	16	16	16	16	16	16	16	16	16	16	16	16	16	16
100.....	20	21	22	22	22	22	22	22	22	22	22	22	22	22
250.....	25	30	35	35	35	35	35	35	35	35	35	35	35	35
500.....	-	35	45	45	50	50	50	50	50	50	50	50	50	50
1 000.....	-	-	55	65	65	70	70	70	70	70	70	70	70	70
2 500.....	-	-	-	80	95	110	110	110	110	110	110	110	110	110
5 000.....	-	-	-	-	110	140	150	150	160	160	160	160	160	160
10 000.....	-	-	-	-	-	170	200	210	220	220	220	220	220	220
15 000.....	-	-	-	-	-	170	230	250	270	270	270	270	270	270
25 000.....	-	-	-	-	-	-	250	310	340	350	350	350	350	350
75 000.....	-	-	-	-	-	-	-	310	510	570	590	610	610	610
100 000.....	-	-	-	-	-	-	-	-	550	630	670	700	700	710
250 000.....	-	-	-	-	-	-	-	-	-	790	970	1 090	1 100	1 100
500 000.....	-	-	-	-	-	-	-	-	-	-	1 120	1 500	1 540	1 570
1 000 000.....	-	-	-	-	-	-	-	-	-	-	-	2 000	2 120	2 190
5 000 000.....	-	-	-	-	-	-	-	-	-	-	-	-	3 540	4 470
10 000 000.....	-	-	-	-	-	-	-	-	-	-	-	-	-	5 480

^{1/} For estimated totals larger than 10 000 000, the standard error is somewhat larger than the table values. The formula given below should be used to calculate the standard error.

$$Se(\hat{Y}) = \sqrt{5\hat{Y}(1-\frac{\hat{Y}}{N})}$$

N = Size of area

\hat{Y} = Estimate of characteristic total

^{2/} The total count of persons in the area if the estimated total is a person characteristic, or the total count of housing units in the area if the estimated total is a housing unit characteristic.

Table B. **Unadjusted Standard Error in Percentage Points for Estimated Percentages**

[Based on a 1-in-6 simple random sample]

Estimated Percentage	Base of percentage ^{1/}												
	500	750	1 000	1 500	2 500	5 000	7 500	10 000	25 000	50 000	100 000	250 000	500 000
2 or 98.....	1.4	1.1	1.0	0.8	0.6	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.1
5 or 95.....	2.2	1.8	1.5	1.3	1.0	0.7	0.6	0.5	0.3	0.2	0.2	0.1	0.1
10 or 90.....	3.0	2.4	2.1	1.7	1.3	0.9	0.8	0.7	0.4	0.3	0.2	0.1	0.1
15 or 85.....	3.6	2.9	2.5	2.1	1.6	1.1	0.9	0.8	0.5	0.4	0.3	0.2	0.1
20 or 80.....	4.0	3.3	2.8	2.3	1.8	1.3	1.0	0.9	0.6	0.4	0.3	0.2	0.1
25 or 75.....	4.3	3.5	3.1	2.5	1.9	1.4	1.1	1.0	0.6	0.4	0.3	0.2	0.1
30 or 70.....	4.6	3.7	3.2	2.6	2.0	1.4	1.2	1.0	0.6	0.5	0.3	0.2	0.1
35 or 65.....	4.8	3.9	3.4	2.8	2.1	1.5	1.2	1.1	0.7	0.5	0.3	0.2	0.2
50.....	5.0	4.1	3.5	2.9	2.2	1.6	1.3	1.1	0.7	0.5	0.4	0.2	0.2

^{1/} For a percentage and/or base of percentage not shown in the table, the formula given below may be used to calculate the standard error.

$$Se(\hat{p}) = \sqrt{\frac{5}{B} \hat{p}(100-\hat{p})}$$

B = Base of estimated percentage

\hat{p} = Estimated percentage

Table C. Standard Error Adjustment Factors

Characteristics	Adjustment Factor
INDUSTRY	
Agriculture, forestry, fisheries, and mining.....	1.2
Construction.....	1.2
Manufacturing:	
Nondurable goods.....	1.2
Durable goods.....	1.2
Transportation.....	1.1
Communications and other public utilities.....	1.1
Wholesale trade.....	1.2
Retail trade.....	1.2
Finance, insurance, and real estate.....	1.1
Business and repair services.....	1.2
Personal, entertainment, and recreation services.....	1.2
Professional and related services:	
Health services.....	1.1
Educational services.....	1.2
Other professional and related services.....	1.1
Public administration.....	1.1
OCCUPATION	
Managerial and professional specialty occupations:	
Executive, administrative, and managerial occupations.....	1.1
Professional specialty occupations.....	1.2
Technical, sales, and administrative support occupations:	
Technicians and related support occupations.....	1.1
Sales occupations.....	1.2
Administrative support occupations, including clerical....	1.1
Service occupations:	
Private household occupations.....	1.1
Protective service occupations.....	1.1
Service occupations, except protective and household.....	1.2
Farming, forestry, fishing occupations.....	1.2
Precision production, craft, and repair occupations.....	1.1
Operators, fabricators, and laborers:	
Machine operators, assemblers, and inspectors.....	1.2
Transportation and material moving occupations.....	1.1
Handlers, equipment cleaners, helpers, and laborers.....	1.2

Appendix D.—Facsimiles of Respondent Instructions and Questionnaire Pages

INSTRUCTIONS FOR QUESTIONS 1 THROUGH 10

1. List in question 1 (on page 1), the names of all the people who usually live here. Then turn to pages 2 and 3 where there are columns to list up to seven persons. In the first column print the name of one of the household members in whose name this home is owned or rented. If no household member owns or rents the living quarters, list in the first column any adult household member who is not a roomer, boarder, or paid employee. Print the names of the other household members, if any, in the columns which follow, using question 1 as a checklist.

2. Fill a circle to show how each person is related to the person in column 1.

A stepchild or legally adopted child of the person in column 1 should be marked **Son/daughter**. Foster children or wards living in the household should be marked **Roomer, boarder**.

3. Be sure to fill a circle for the sex of each person.
4. Fill the circle for the category with which the person most closely identifies. If you fill the **Indian (American)** or **Other** circle, be sure to print the name of the specific Indian tribe or specific group.
5. Enter age at last birthday in the space provided (enter "0" for babies less than one year old). Also enter month and year of birth, and fill the appropriate circles. For an illustration of how to complete question 5, see the example on pages 4 and 5. If age or month or year of birth is not known, give your best estimate.
6. If the person's only marriage was annulled, mark **Never married**.
7. A person is of Spanish/Hispanic origin or descent if the person identifies his or her ancestry with one of the listed groups, that is, Mexican, Puerto Rican, etc. Origin or descent (ancestry) may be viewed as the nationality group, the lineage, or country in which the person or the person's parents or ancestors were born.
8. Do not count enrollment in a trade or business school, company training, or tutoring unless the course would be accepted for credit at a regular elementary school, high school, or college. A **public** school is any school or college which is controlled and supported primarily by a local, county, State, or Federal Government.
9. Fill only one circle. Mark the highest grade *ever* attended even if the person did not finish it. If the person is still in school, mark the grade in which now enrolled. Schooling received in foreign or ungraded schools should be reported as the equivalent grade or year in the regular American school system. If uncertain whether a Head Start program is for nursery school or kindergarten, mark the circle for **Nursery school**.

If the person skipped or repeated grades, mark the highest grade ever attended regardless of how long it took to get there. Persons who did not attend any college but who completed high school by finishing the 12th grade or by passing an equivalency test, such as the

General Educational Development (GED) examination, should fill the circle for the 12th grade.

10. Mark **Finished this grade (or year)** only if the person finished the *entire* grade or year marked in question 9 or if the highest grade was completed by passing a high school equivalency test.

INSTRUCTIONS FOR QUESTIONS H4 THROUGH H12

- H4. Mark only one circle. *This address* means the house or building number where your living quarters are located.

- H5. Mark the second circle only if you *must* go through someone else's living quarters to get to your own.

- H6. Consider that you have hot water even if you have it only part of the time.

Mark **Yes**, but also **used by another household** if someone else who lives in the same building, but is not a member of your household, also uses the facilities. Mark this circle also if the occupants of living quarters now vacant would also use the facilities in your living quarters.

- H7. Count only whole rooms used for living purposes, such as living rooms, dining rooms, kitchens, bedrooms, finished recreation rooms, family rooms, etc. Do not count bathrooms, kitchenettes, strip or pullman kitchens, utility rooms, or unfinished attics, unfinished basements, or other space used for storage.

- H8. Mark **Owned or being bought** if the living quarters are owned outright or are mortgaged. Also mark **Owned or being bought** if the living quarters are owned but the land is rented.

Mark **Rented for cash rent** if any money rent is paid. Rent may be paid by persons who are not members of your household.

Occupied without payment of cash rent includes, for example, a parsonage, military housing, a house or apartment provided free of rent by the owner, or a house or apartment occupied by a janitor or caretaker in exchange for services.

- H9. A **condominium** is housing in which the apartments or houses in a development are individually owned, but the common areas, such as lobbies, halls, etc., are jointly owned. The person owning a condominium very likely has a mortgage on the particular unit.

- H10b. A **commercial establishment** is easily recognized from the outside, for example, a grocery store or barber shop. A **medical office** is a doctor's or dentist's office regularly visited by patients.

- H11. Include the value of the house, the land it is on, and any other structures on the same property. If the house is owned but the land is rented, estimate the combined value of the house and the

land. If this is a condominium unit, enter the estimated value for your living quarters and your share of the common elements.

- H12.** Report the rent agreed to or contracted for, even if the rent is unpaid or paid by someone else.

If rent is not paid by the month, change the rent to a monthly amount; and then fill the appropriate circle in question H12.

If rent is paid:	Multiply rent by:
By the day	30
By the week	4
Every other week	2

If rent is paid:	Divide rent by:
4 times a year	3
2 times a year	6
Once a year	12

INSTRUCTIONS FOR QUESTIONS H13 THROUGH H20

- H13.** Mark only one circle.

Detached means there is open space on all sides, or the house is joined only to a shed or garage. *Attached* means that the house is joined to another house or building by at least one wall which goes from ground to roof.

Mark **A** one-family house detached from any other house when a mobile home or trailer has had one or more rooms added or built onto it; a porch or shed is not considered a room.

Count all occupied and vacant living quarters in the house or building, but not stores or office space.

- H14a.** Do not count unfinished basements or unfinished attics. However, a basement or attic with finished room(s) for living purposes should be counted as a story.

- H15a.** A *city or suburban* lot is usually located in a city, a community, or any built-up area outside a city or community, and is not larger than the house and yard. All living quarters in apartment buildings, including garden-type apartments in the city or suburbs, are considered on a city or suburban lot.

A *place* is a farm, ranch, or any other property, other than a city or suburban lot, on which this *residence* is located.

- H16.** If a well provides water for six or more houses or apartments, mark **A** public system. If a well provides water for five or fewer houses or apartments, mark one of the categories for *individual well*.

Drilled wells, or small diameter wells, are usually less than 1½ feet in diameter. *Dug wells* are generally hand dug and are wider.

- H17.** A *public sewer* is operated by a government body or a private organization. A *septic tank or cesspool* is an underground tank or pit used for disposal of sewage.

- H19.** The term *person in column 1* refers to the person listed in the first column on page 2. This person should be the household member (or one of the members) in whose name the house is owned or rented. If there is no such person, any adult household member can be the person in column 1. Mark when this person last moved into this house or apartment.

- H20.** This question refers to the type of *heating equipment* and not to the fuel used.

An *electric heat pump* is sometimes known as a *reverse cycle*

system. It may be centrally installed with ducts to the rooms or individual heat pumps in the rooms.

A *floor, wall, or pipeless furnace* delivers warm air to the room right above the furnace or to the room(s) on one or both sides of the wall in which the furnace is installed and does not have ducts leading to other rooms.

Any heater that you plug into an electric outlet should be counted as a *portable room heater*.

INSTRUCTIONS FOR QUESTIONS H21 THROUGH H32

- H21.** *Gas from underground pipes* is piped in from a central system such as one operated by a public utility company or a municipal government. *Bottled, tank, or LP gas* is stored in tanks which are refilled or exchanged when empty. *Other fuel* includes any fuel not separately listed, for example, purchased steam, fuel briquettes, waste material, etc.

- H22.** If your living quarters are rented, enter the costs for utilities and fuels only if you pay for them in addition to the rent entered in H12. If already included in rent, fill the appropriate circle.

The amounts to be reported should be for the past 12 months, that is, for electricity and gas, the monthly *average* for the past 12 months; for water and other fuels, the *total* amount for the past 12 months.

Estimate as closely as possible when exact costs are not known.

Report amounts even if your bills are unpaid or paid by someone else. If the bills include utilities or fuel used also by another apartment or a business establishment, estimate the amounts for your own living quarters. If gas and electricity are billed together, enter the combined amount on the electricity line and bracket ({) the two utilities.

- H23.** The kitchen sink, stove, and refrigerator must be located in the building but do *not* have to be in the same room. Portable cooking equipment is not considered as a range or cook stove.

- H26.** Answer **Yes only** if the telephone is located *in* your living quarters.

- H27.** Count only equipment used to cool the air by means of a refrigeration unit.

- H28 – H29.** Count company cars (including police cars and taxicabs) and company trucks that are regularly kept at home and used by household members. Do *not* count cars or trucks permanently out of working order.

- H30 – H32.** Do not answer these questions if you live in a cooperative, regardless of the number of units in the structure.

- H30.** Report taxes for all taxing jurisdictions even if they are included in mortgage payment, not paid yet, paid by someone else, or are delinquent.

- H31.** When premiums are paid on other than a yearly basis, convert to a yearly basis and enter the yearly amount, even if no payment was made during the past 12 months.

- H32a.** The word "mortgage" is used as a general term to indicate all types of loans which are secured by real estate.

- b. A second or junior mortgage is also secured by real estate but has been made by the homeowner in addition to the first mortgage.
- c. Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see instructions for H12 to change it to a monthly amount.

INSTRUCTIONS FOR QUESTIONS 11 THROUGH 14

11. *For persons born in the United States:*

Print the name of the State in which this person's mother was living when this person was born. For persons born in a hospital, do not give the State in which the hospital was located unless the hospital and the mother's home were in the same State or the location of the mother's home is not known. For example, if a person was born in a hospital in Washington, D.C., but the mother's home was in Virginia at the time of the person's birth, enter "Virginia."

For persons born outside the United States:

Print the full name of the foreign country or Puerto Rico, Guam, etc., where the person was born. Use international boundaries as now recognized by the United States. Specify whether Northern Ireland or Ireland (Eire); East or West Germany; England, Scotland or Wales (*not* Great Britain or United Kingdom). Specify the particular island in the Caribbean, *not*, for example, West Indies.

- 12. This question is only for persons born in a foreign country. Fill the Yes, a naturalized citizen circle only if the person has *completed* the naturalization process and is now a citizen.

If the person has entered the U.S. more than once, fill the circle for the year he or she came to stay permanently.

- 13a. Mark No, only speaks English if the person always speaks English at home; then skip to question 14.

Mark Yes if the person speaks a language other than English at home. Do *not* mark Yes for a language spoken only at school or if speaking ability is limited to a few expressions or slang.

- b. Print the non-English language spoken at home. If this person speaks two or more non-English languages at home and cannot determine which is spoken most often, report the first language the person learned to speak.
- c. Fill the circle that best describes the person's *ability* to speak English.
 - (1) The circle **Very well** should be filled for persons who have no difficulty speaking English.
 - (2) The circle **Well** should be filled for persons who have only minor problems which do not seriously limit their ability to speak English.
 - (3) The circle **Not well** should be filled for persons who are seriously limited in their ability to speak English.
 - (4) The circle **Not at all** should be filled for persons who do not speak English at all.

- 14. Print the ancestry group with which the person *identifies*. Ancestry (or origin or descent) may be viewed as the nationality group, the lineage, or the country in which the person or the person's parents or ancestors were born before their arrival in the United States. Persons who are of more than one origin and who cannot identify with a single group should print their multiple ancestry (for example, German-Irish).

Be specific; for example, if ancestry is "Indian," specify whether American Indian, Asian Indian, or West Indian. Distinguish Cape Verdean from Portuguese, and French Canadian from Canadian.

A religious group should not be reported as a person's ancestry.

INSTRUCTIONS FOR QUESTIONS 15 THROUGH 20

- 15a. Mark **Yes**, this house if this person lived in this same house or apartment on April 1, 1975, but moved away and came back between then and now. Mark **No**, different house if this person lived in the same building but in a different apartment (or in the same mobile home or trailer but on a different trailer site).

- b. If this person lived in a different house or apartment on April 1, 1975, give the location of this person's usual home at that time.

Part (1) If the person was living in the United States on April 1, 1975, print the name of the State. If the person did *not* live in the United States on April 1, 1975, print the full name of the foreign country or Puerto Rico, Guam, etc.

Part (2) If in Louisiana, print the parish name. If in Alaska, print the borough name. If in New York City — print the borough name if the county name is not known. If an independent city, leave blank.

Part (3) If in Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island or Vermont, print the name of the town rather than the name of the village or city, unless the name of the town is unknown.

Part (4) Mark **Yes** if you know that the location is *now* inside the limits of a city, town, village or other incorporated place, even if it was not inside the limits on April 1, 1975.

- 17a. Mark **Yes** only if this person was on *active* duty in the U.S. Army, Navy, Air Force, Marine Corps, or Coast Guard. Mark **No** if the person was in the National Guard or the reserves.

- b. Mark **Yes** if the person was attending a college or university either full or part time and was enrolled for credit toward a degree. Mark **No** if the person was taking only non-credit courses or was attending a vocational or trade school, such as secretarial school.

- c. Mark **Yes**, full time if the person worked full time (35 hours or more per week). Mark **Yes**, part time if the person worked part time (less than 35 hours per week). Mark **No** if the person only did unpaid volunteer work, housework or yard work at own home, or if the only work done was as a resident of an institution.

- 18a. Mark **Yes** if this person was ever on active duty in the U.S. Army, Navy, Air Force, Marine Corps, or Coast Guard, even if the time served was short. For persons in the National Guard or military reserve units, mark **Yes** *only* if the person was ever called to active duty; mark **No** if the only service was active duty for training.

- b. If this person served during more than one period, fill all circles which apply, even if service was for a short time.

- 19. The term "health condition" refers to any physical or mental problem which has lasted for 6 or more months. A serious problem with seeing, hearing, or speech should be considered a health condition. Pregnancy or a temporary health problem such as a broken bone that is expected to heal normally should *not* be considered a health condition.

- 20. Count all children born alive, including any who have died (even shortly after birth) or who no longer live with her.

INSTRUCTIONS FOR QUESTIONS 21 THROUGH 26

21. If the exact date of marriage is not known, give your best estimate.
- 22a. Mark **Yes** if the person worked, either full or part time, on any day of last week (Sunday through Saturday).

Count as work:

Work for someone else for wages, salary, piece rate, commission, tips, or payments "in kind" (for example, food, lodging received as payment for work performed).

Work in own business, professional practice, or farm.

Any work in a family business or farm, paid or not.

Any part-time work including babysitting, paper routes, etc.

Active duty in Armed Forces.

Do not count as work:

Housework or yard work at home.

Unpaid volunteer work.

Work done as a resident of an institution.

- b. Give the *actual* number of hours worked at *all jobs last week*, even if that was more or fewer hours than usually worked.
23. If the person worked at several locations, but reported to the same location each day to begin work, print where he or she reported. If the person did not report to the same location each day to begin work, print the words "various locations" for 23a, and give as much information as possible in the remainder of 23 to identify the area in which he or she worked *most* last week.

If the person's employer operates in more than one location (such as a grocery store chain or public school system), give the exact address of the location or branch where the person worked.

If the person worked in a foreign country or Puerto Rico, Guam, etc., print the name of the country in 23e and leave the other parts of 23 blank.

- 24a. Travel time is from door to door. Include time taken waiting for public transportation, picking up passengers in carpools, etc.
- b. Mark **Worked at home** for a person who works on a farm where he or she lives, or in an office or shop in the person's home.
- c. If the person was driven to work by someone who then drove back home or to a non-work destination, mark **Drive alone**.
- d. Do not include riders who rode to school or some other non-work destination.
25. If the person works only during certain seasons or on a day-to-day basis when work is available, mark **No**.

- 26a. Mark **Yes** if the person tried to get a job or to start a business or professional practice at any time in the last *four* weeks; for example, registered at an employment office, went to a job interview, placed or answered ads, or did anything toward starting a business or professional practice.

- b. Mark **No, already has a job** if the person was on layoff or was expecting to report to a job within 30 days.

Mark **No, temporarily ill** if the person expects to be able to work within 30 days.

Mark **No, other reasons** if the person could not have taken a job because he or she was going to school, taking care of children, etc.

INSTRUCTIONS FOR QUESTIONS 27 THROUGH 29

27. Look at the instructions for 22a to see what to count as work. Mark **Never worked** if the person: (1) never worked at any kind of job or business, either full or part time, (2) never did any work, with or without pay, in a family business or farm *and* (3) never served in the Armed Forces.

- 28a. If the person worked for a company, business, or government agency, print the name of the company, not the name of the person's supervisor. If the person worked for an individual or a business that has no company name, print the name of the individual worked for. If the person worked in his or her own business, print "self-employed."

- b. Print two or more words to tell what the business, industry, or individual employer named in 28a does. If there is more than one activity, describe only the major activity *at the place where the person works*. Enter what is made, what is sold, or what service is given.

Some examples of what is needed to make an answer acceptable are shown on the census form and here.

Unacceptable

Furniture company

Grocery store

Oil company

Ranch

Acceptable

Metal furniture manufacturing

Wholesale grocery store

Retail gas station

Cattle ranch

- c. Mark **Manufacturing** if the factory, plant, mill, etc., mostly makes things, even if it also sells them.

Mark **Wholesale trade** if the business mostly sells things to stores or other companies.

Mark **Retail trade** if the business mostly sells things (not services) to individuals.

Mark **Other** if the main activity of the employer is not making or selling things. Some examples of **Other** are farming, construction, and services such as those provided by hotels, dry cleaners, repair shops, schools, and banks.

- 29a. Print two or more words to describe the kind of work the person does. If the person is a trainee, apprentice, or helper, include that in the description.

Some examples of what is needed to make an answer acceptable are shown on the census form and here.

Unacceptable

Clerk

Helper

Mechanic

Nurse

Acceptable

Production clerk

Carpenter's helper

Auto engine mechanic

Registered nurse

- b. Print the most important things that the person does on the job. Some examples are shown on the census form.

INSTRUCTIONS FOR QUESTIONS 30 THROUGH 33

30. If the person was an employee of a *private* nonprofit organization, such as a church, fill the first circle:

Mark **Local government employee** for a teacher working in an elementary or secondary public school.

- 31a. Look at the instructions for question 22a to see what to count as work.

- b. Count every week in which the person did any work at all, even for an hour.

- c. If the hours worked each week varied considerably, give the best estimate of the hours usually worked most weeks.

- d. Count every week in which the person did not work at all, but spent any time looking for work or on layoff from a job. *Looking for work* means trying to get a job or start a business or professional practice; *layoff* includes either temporary or indefinite layoff.

32. Fill the Yes or No circle for each part and enter the appropriate amount. If income from any source was received jointly by household members, report if possible, the appropriate share for each person; otherwise, report the whole amount for only one person and mark **No** for the other person, unless the other person has additional income of the same type.

- a. Include sick leave pay. Do not include reimbursement for business

expenses and pay "in kind," (for example, food, lodging received as payment for work performed).

- b. Include net earnings (gross earnings minus business expenses) from a nonfarm business. If business lost money, write "Loss" above the amount.

- c. Include net earnings (gross receipts minus operating expenses) from a farm. If farm lost money, write "Loss" above the amount.

- d. Include interest and dividends credited to the person's account (for example, from savings accounts and stock shares), net royalties, and net income from rental property.

- e. Include Social Security or Railroad Retirement payments to retired persons, to dependents of deceased insured workers and to disabled workers.

- f. Include public assistance or welfare payments received from Federal, State, or local agencies. Do not include private welfare payments.

- g. Include all other regular payments, such as government employee retirement, union or private pensions and annuities; unemployment benefits; worker's compensation; Armed Forces allotments; private welfare payments; regular contributions from persons not living in the household; etc.

Do not include lump-sum payments received from the sale of property (capital gains), insurance policies, inheritances, etc.

33. If no income was received in 1979, fill the **None** circle. If total income was a loss, write "Loss" above the amount.

Please fill out this
official Census Form
and mail it back on
Census Day,
Tuesday, April 1, 1980

1980 Census of the United States

If the address shown below has the wrong apartment identification,
please write the correct apartment number or location here:

DO	A1	A2	A4	A5	A6
				L	

Your answers are confidential

By law (title 13, U. S. Code), census employees are subject to fine and/or imprisonment for any disclosure of your answers. Only after 72 years does your information become available to other government agencies or the public. The same law requires that you answer the questions to the best of your knowledge.

Para personas de habla hispana

(For Spanish-speaking persons):
SI USTED DESEA UN CUESTIONARIO DEL CENSO EN ESPAÑOL
llame a la oficina del censo. El número de teléfono se encuentra en
el encasillado de la dirección.

O, si prefiere, marque esta casilla ☐ y devuelva el cuestionario
por correo en el sobre que se le incluye.

A message from the Director,
Bureau of the Census . . .

We must, from time to time, take stock of ourselves as a people if our Nation is to meet successfully the many national and local challenges we face. This is the purpose of the 1980 census.

The essential need for a population census was recognized almost 200 years ago when our Constitution was written. As provided by article I, the first census was conducted in 1790 and one has been taken every 10 years since then.

The law under which the census is taken protects the confidentiality of your answers. For the next 72 years — or until April 1, 2052 — only sworn census workers have access to the individual records, and no one else may see them.

Your answers, when combined with the answers from other people, will provide the statistical figures needed by public and private groups, schools, business and industry, and Federal, State, and local governments across the country. These figures will help all sectors of American society understand how our population and housing are changing. In this way, we can deal more effectively with today's problems and work toward a better future for all of us.

The census is a vitally important national activity. Please do your part by filling out this census form accurately and completely. If you mail it back promptly in the enclosed postage-paid envelope, it will save the expense and inconvenience of a census taker having to visit you.

Thank you for your cooperation.

Page 2

ALSO ANSWER THE HOUSING QUESTIONS ON PAGE 3

Here are the QUESTIONS ↓	These are the columns for ANSWERS → Please fill one column for each person listed in Question 1.	PERSON in column 1		PERSON in column 2	
		Last name	First name Middle initial	Last name	First name Middle initial
2. How is this person related to the person in column 1? Fill one circle. If "Other relative" of person in column 1, give exact relationship, such as mother-in-law, niece, grandson, etc.		START in this column with the household member (or one of the members) in whose name the home is owned or rented. If there is no such person, start in this column with any adult household member.		If relative of person in column 1: Husband/wife Father/mother <input type="radio"/> Son/daughter <input type="radio"/> Other relative <input type="radio"/> Brother/sister If not related to person in column 1: <input type="radio"/> Roomer, boarder <input type="radio"/> Other nonrelative <input type="radio"/> Partner, roommate <input type="radio"/> Paid employee	
3. Sex Fill one circle.		<input type="radio"/> Male <input checked="" type="radio"/> Female		<input type="radio"/> Male <input checked="" type="radio"/> Female	
4. Is this person — Fill one circle.		<input type="radio"/> White <input type="radio"/> Asian Indian <input type="radio"/> Black or Negro <input type="radio"/> Hawaiian <input type="radio"/> Japanese <input type="radio"/> Guamanian <input type="radio"/> Chinese <input type="radio"/> Samoan <input type="radio"/> Filipino <input type="radio"/> Eskimo <input type="radio"/> Korean <input type="radio"/> Aleut <input type="radio"/> Vietnamese <input type="radio"/> Other — Specify <input type="radio"/> Indian (Amer.) Print tribe →		<input type="radio"/> White <input type="radio"/> Asian Indian <input type="radio"/> Black or Negro <input type="radio"/> Hawaiian <input type="radio"/> Japanese <input type="radio"/> Guamanian <input type="radio"/> Chinese <input type="radio"/> Samoan <input type="radio"/> Filipino <input type="radio"/> Eskimo <input type="radio"/> Korean <input type="radio"/> Aleut <input type="radio"/> Vietnamese <input type="radio"/> Other — Specify <input type="radio"/> Indian (Amer.) Print tribe →	
5. Age, and month and year of birth a. Print age at last birthday. b. Print month and fill one circle. c. Print year in the spaces, and fill one circle below each number.		a. Age at last birthday 1 8 0 0 b. Month of birth Jan.—Mar. 4 0 4 0 Apr.—June 5 0 5 0 July—Sept. 6 0 6 0 Oct.—Dec. 7 0 7 0 8 0 8 0 9 0 9 0		a. Age at last birthday 1 8 0 0 b. Month of birth Jan.—Mar. 4 0 4 0 Apr.—June 5 0 5 0 July—Sept. 6 0 6 0 Oct.—Dec. 7 0 7 0 8 0 8 0 9 0 9 0	
6. Marital status Fill one circle.		<input type="radio"/> Now married <input type="radio"/> Separated <input type="radio"/> Widowed <input type="radio"/> Never married <input type="radio"/> Divorced		<input type="radio"/> Now married <input type="radio"/> Separated <input type="radio"/> Widowed <input type="radio"/> Never married <input type="radio"/> Divorced	
7. Is this person of Spanish/Hispanic origin or descent? Fill one circle.		<input type="radio"/> No (not Spanish/Hispanic) <input type="radio"/> Yes, Mexican, Mexican-Amer., Chicano <input type="radio"/> Yes, Puerto Rican <input type="radio"/> Yes, Cuban <input type="radio"/> Yes, other Spanish/Hispanic		<input type="radio"/> No (not Spanish/Hispanic) <input type="radio"/> Yes, Mexican, Mexican-Amer., Chicano <input type="radio"/> Yes, Puerto Rican <input type="radio"/> Yes, Cuban <input type="radio"/> Yes, other Spanish/Hispanic	
8. Since February 1, 1980, has this person attended regular school or college at any time? Fill one circle. Count nursery school, kindergarten, elementary school, and schooling which leads to a high school diploma or college degree.		<input type="radio"/> No, has not attended since February 1 <input type="radio"/> Yes, public school, public college <input type="radio"/> Yes, private, church-related <input type="radio"/> Yes, private, not church-related		<input type="radio"/> No, has not attended since February 1 <input type="radio"/> Yes, public school, public college <input type="radio"/> Yes, private, church-related <input type="radio"/> Yes, private, not church-related	
9. What is the highest grade (or year) of regular school this person has ever attended? Fill one circle. If now attending school, mark grade person is in. If high school was finished by equivalency test (GED), mark "12."		Highest grade attended: <input type="radio"/> Nursery school <input type="radio"/> Kindergarten Elementary through high school (grade or year) 1 2 3 4 5 6 7 8 9 10 11 12 <input type="radio"/> College (academic year) 1 2 3 4 5 6 7 8 or more <input type="radio"/> Never attended school — Skip question 10		Highest grade attended: <input type="radio"/> Nursery school <input type="radio"/> Kindergarten Elementary through high school (grade or year) 1 2 3 4 5 6 7 8 9 10 11 12 <input type="radio"/> College (academic year) 1 2 3 4 5 6 7 8 or more <input type="radio"/> Never attended school — Skip question 10	
10. Did this person finish the highest grade (or year) attended? Fill one circle.		<input type="radio"/> Now attending this grade (or year) <input type="radio"/> Finished this grade (or year) <input type="radio"/> Did not finish this grade (or year)		<input type="radio"/> Now attending this grade (or year) <input type="radio"/> Finished this grade (or year) <input type="radio"/> Did not finish this grade (or year)	
		CENSUS USE ONLY A. <input type="radio"/> I <input type="radio"/> N <input type="radio"/> O		CENSUS USE ONLY A. <input type="radio"/> I <input type="radio"/> N <input type="radio"/> O	

NOW PLEASE ANSWER QUESTIONS H1—H12
FOR YOUR HOUSEHOLD

PERSON in column 7

Last name _____ First name _____ Middle initial _____

If relative of person in column 1:

☐ Husband/wife ☐ Father/mother
☐ Son/daughter ☐ Other relative
☐ Brother/sister

If not related to person in column 1:

☐ Roomer, boarder ☐ Other nonrelative
☐ Partner, roommate
☐ Paid employee

☐ Male ☐ Female

☐ White ☐ Asian Indian
☐ Black or Negro ☐ Hawaiian
☐ Japanese ☐ Guamanian
☐ Chinese ☐ Samoan
☐ Filipino ☐ Eskimo
☐ Korean ☐ Aleut
☐ Vietnamese ☐ Other — Specify _____
☐ Indian (Amer.)
Print tribe _____

a. Age at last birthday _____ c. Year of birth _____

b. Month of birth _____

☐ Jan.—Mar. ☐ Apr.—June ☐ July—Sept. ☐ Oct.—Dec.

☐ Now married ☐ Separated
☐ Widowed ☐ Never married
☐ Divorced

☐ No (not Spanish/Hispanic)
☐ Yes, Mexican, Mexican-Amer., Chicano
☐ Yes, Puerto Rican
☐ Yes, Cuban
☐ Yes, other Spanish/Hispanic

☐ No, has not attended since February 1
☐ Yes, public school, public college
☐ Yes, private, church-related
☐ Yes, private, not church-related

Highest grade attended:

☐ Nursery school ☐ Kindergarten

Elementary through high school (grade or year)

1 2 3 4 5 6 7 8 9 10 11 12

College (academic year)

1 2 3 4 5 6 7 8 or more

☐ Never attended school—Skip question 10

☐ Now attending this grade (or year)
☐ Finished this grade (or year)
☐ Did not finish this grade (or year)

CENSUS USE ONLY A. ☐ I ☐ N ☐ O

If you listed more than 7 persons in Question 1, please see note on page 20.

H1. Did you leave anyone out of Question 1 because you were not sure if the person should be listed — for example, a new baby still in the hospital, a lodger who also has another home, or a person who stays here once in a while and has no other home?

☐ Yes — On page 20 give name(s) and reason left out.
☐ No

H2. Did you list anyone in Question 1 who is away from home now — for example, on a vacation or in a hospital?

☐ Yes — On page 20 give name(s) and reason person is away.
☐ No

H3. Is anyone visiting here who is not already listed?

☐ Yes — On page 20 give name of each visitor for whom there is no one at the home address to report the person to a census taker.
☐ No

H4. How many living quarters, occupied and vacant, are at this address?

☐ One
☐ 2 apartments or living quarters
☐ 3 apartments or living quarters
☐ 4 apartments or living quarters
☐ 5 apartments or living quarters
☐ 6 apartments or living quarters
☐ 7 apartments or living quarters
☐ 8 apartments or living quarters
☐ 9 apartments or living quarters
☐ 10 or more apartments or living quarters
☐ This is a mobile home or trailer

H5. Do you enter your living quarters —

☐ Directly from the outside or through a common or public hall?
☐ Through someone else's living quarters?

H6. Do you have complete plumbing facilities in your living quarters, that is, hot and cold piped water, a flush toilet, and a bathtub or shower?

☐ Yes, for this household only
☐ Yes, but also used by another household
☐ No, have some but not all plumbing facilities
☐ No plumbing facilities in living quarters

H7. How many rooms do you have in your living quarters?

Do not count bathrooms, porches, balconies, foyers, halls, or half-rooms.

☐ 1 room ☐ 4 rooms ☐ 7 rooms
☐ 2 rooms ☐ 5 rooms ☐ 8 rooms
☐ 3 rooms ☐ 6 rooms ☐ 9 or more rooms

H8. Are your living quarters —

☐ Owned or being bought by you or by someone else in this household?
☐ Rented for cash rent?
☐ Occupied without payment of cash rent?

H9. Is this apartment (house) part of a condominium?

☐ No
☐ Yes, a condominium

H10. If this is a one-family house —

a. Is the house on a property of 10 or more acres?

☐ Yes ☐ No

b. Is any part of the property used as a commercial establishment or medical office?

☐ Yes ☐ No

H11. If you live in a one-family house or a condominium unit which you own or are buying —

What is the value of this property, that is, how much do you think this property (house and lot or condominium unit) would sell for if it were for sale?

Do not answer this question if this is —

☐ A mobile home or trailer
☐ A house on 10 or more acres
☐ A house with a commercial establishment or medical office on the property

☐ Less than \$10,000 ☐ \$50,000 to \$54,999
☐ \$10,000 to \$14,999 ☐ \$55,000 to \$59,999
☐ \$15,000 to \$17,499 ☐ \$60,000 to \$64,999
☐ \$17,500 to \$19,999 ☐ \$65,000 to \$69,999
☐ \$20,000 to \$22,499 ☐ \$70,000 to \$74,999
☐ \$22,500 to \$24,999 ☐ \$75,000 to \$79,999
☐ \$25,000 to \$27,499 ☐ \$80,000 to \$89,999
☐ \$27,500 to \$29,999 ☐ \$90,000 to \$99,999
☐ \$30,000 to \$34,999 ☐ \$100,000 to \$124,999
☐ \$35,000 to \$39,999 ☐ \$125,000 to \$149,999
☐ \$40,000 to \$44,999 ☐ \$150,000 to \$199,999
☐ \$45,000 to \$49,999 ☐ \$200,000 or more

H12. If you pay rent for your living quarters —

What is the monthly rent?

If rent is not paid by the month, see the instruction guide on how to figure a monthly rent.

☐ Less than \$50 ☐ \$160 to \$169
☐ \$50 to \$59 ☐ \$170 to \$179
☐ \$60 to \$69 ☐ \$180 to \$189
☐ \$70 to \$79 ☐ \$190 to \$199
☐ \$80 to \$89 ☐ \$200 to \$224
☐ \$90 to \$99 ☐ \$225 to \$249
☐ \$100 to \$109 ☐ \$250 to \$274
☐ \$110 to \$119 ☐ \$275 to \$299
☐ \$120 to \$129 ☐ \$300 to \$349
☐ \$130 to \$139 ☐ \$350 to \$399
☐ \$140 to \$149 ☐ \$400 to \$499
☐ \$150 to \$159 ☐ \$500 or more

FOR CENSUS USE ONLY

A4. Block number _____ A6. Serial number _____

B. Type of unit or quarters

Occupied

☐ First form
☐ Continuation

Vacant

☐ Regular
☐ Usual home elsewhere

Group quarters

☐ First form
☐ Continuation

For vacant units

C1. Is this unit for —

☐ Year round use
☐ Seasonal/Mig. — Skip C2, C3, and D.

C2. Vacancy status

☐ For rent
☐ For sale only
☐ Rented or sold, not occupied
☐ Held for occasional use
☐ Other vacant

C3. Is this unit boarded up?

☐ Yes ☐ No

D. Months vacant

☐ Less than 1 month
☐ 1 up to 2 months
☐ 2 up to 6 months
☐ 6 up to 12 months
☐ 1 year up to 2 years
☐ 2 or more years

E. Indicators

1. ☐ Mail return
2. ☐ Pop./F

F. Total persons

1 2 3 4 5 6 7 8 9 10 11 12

H13. Which best describes this building? <i>Include all apartments, flats, etc., even if vacant.</i> <ul style="list-style-type: none"> <input type="radio"/> A mobile home or trailer <input type="radio"/> A one-family house detached from any other house <input type="radio"/> A one-family house attached to one or more houses <input type="radio"/> A building for 2 families <input type="radio"/> A building for 3 or 4 families <input type="radio"/> A building for 5 to 9 families <input type="radio"/> A building for 10 to 19 families <input type="radio"/> A building for 20 to 49 families <input type="radio"/> A building for 50 or more families <input type="radio"/> A boat, tent, van, etc. 	H21a. Which fuel is used most for house heating? <ul style="list-style-type: none"> <input type="radio"/> Gas: from underground pipes serving the neighborhood <input type="radio"/> Gas: bottled, tank, or LP <input type="radio"/> Electricity <input type="radio"/> Fuel oil, kerosene, etc. <input type="radio"/> Coal or coke <input type="radio"/> Wood <input type="radio"/> Other fuel <input type="radio"/> No fuel used b. Which fuel is used most for water heating? <ul style="list-style-type: none"> <input type="radio"/> Gas: from underground pipes serving the neighborhood <input type="radio"/> Gas: bottled, tank, or LP <input type="radio"/> Electricity <input type="radio"/> Fuel oil, kerosene, etc. <input type="radio"/> Coal or coke <input type="radio"/> Wood <input type="radio"/> Other fuel <input type="radio"/> No fuel used 	CENSUS USE H22a. 0 0 0 1 1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9
H14a. How many stories (floors) are in this building? <i>Count an attic or basement as a story if it has any finished rooms for living purposes.</i> <ul style="list-style-type: none"> <input type="radio"/> 1 to 3 — Skip to H15 <input type="radio"/> 4 to 6 <input type="radio"/> 7 to 12 <input type="radio"/> 13 or more stories b. Is there a passenger elevator in this building? <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No 	c. Which fuel is used most for cooking? <ul style="list-style-type: none"> <input type="radio"/> Gas: from underground pipes serving the neighborhood <input type="radio"/> Gas: bottled, tank, or LP <input type="radio"/> Electricity <input type="radio"/> Fuel oil, kerosene, etc. <input type="radio"/> Coal or coke <input type="radio"/> Wood <input type="radio"/> Other fuel <input type="radio"/> No fuel used 	H22b. 0 0 0 1 1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9
H15a. Is this building — <ul style="list-style-type: none"> <input type="radio"/> On a city or suburban lot, or on a place of less than 1 acre? — Skip to H16 <input type="radio"/> On a place of 1 to 9 acres? <input type="radio"/> On a place of 10 or more acres? b. Last year, 1979, did sales of crops, livestock, and other farm products from this place amount to — <ul style="list-style-type: none"> <input type="radio"/> Less than \$50 (or None) <input type="radio"/> \$50 to \$249 <input type="radio"/> \$250 to \$599 <input type="radio"/> \$600 to \$999 <input type="radio"/> \$1,000 to \$2,499 <input type="radio"/> \$2,500 or more 	H22. What are the costs of utilities and fuels for your living quarters? a. Electricity \$.00 OR <input type="radio"/> Included in rent or no charge Average monthly cost <input type="radio"/> Electricity not used b. Gas \$.00 OR <input type="radio"/> Included in rent or no charge Average monthly cost <input type="radio"/> Gas not used c. Water \$.00 OR <input type="radio"/> Included in rent or no charge Yearly cost d. Oil, coal, kerosene, wood, etc. \$.00 OR <input type="radio"/> Included in rent or no charge Yearly cost <input type="radio"/> These fuels not used	H22c. 0 0 0 1 1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9
H16. Do you get water from — <ul style="list-style-type: none"> <input type="radio"/> A public system (city water department, etc.) or private company? <input type="radio"/> An individual drilled well? <input type="radio"/> An individual dug well? <input type="radio"/> Some other source (a spring, creek, river, cistern, etc.)? 	H23. Do you have complete kitchen facilities? Complete kitchen facilities are a sink with piped water, a range or cookstove, and a refrigerator. <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No 	H22d. 0 0 0 0 1 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4 5 5 5 5 6 6 6 6 7 7 7 7 8 8 8 8 9 9 9 9
H17. Is this building connected to a public sewer? <ul style="list-style-type: none"> <input type="radio"/> Yes, connected to public sewer <input type="radio"/> No, connected to septic tank or cesspool <input type="radio"/> No, use other means 	H24. How many bedrooms do you have? <i>Count rooms used mainly for sleeping even if used also for other purposes.</i> <ul style="list-style-type: none"> <input type="radio"/> No bedroom <input type="radio"/> 1 bedroom <input type="radio"/> 2 bedrooms <input type="radio"/> 3 bedrooms <input type="radio"/> 4 bedrooms <input type="radio"/> 5 or more bedrooms 	0 0 0 0 1 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4 5 5 5 5 6 6 6 6 7 7 7 7 8 8 8 8 9 9 9 9
H18. About when was this building originally built? Mark when the building was first constructed, not when it was remodeled, added to, or converted. <ul style="list-style-type: none"> <input type="radio"/> 1979 or 1980 <input type="radio"/> 1975 to 1978 <input type="radio"/> 1970 to 1974 <input type="radio"/> 1960 to 1969 <input type="radio"/> 1950 to 1959 <input type="radio"/> 1940 to 1949 <input type="radio"/> 1939 or earlier 	H25. How many bathrooms do you have? <i>A complete bathroom is a room with flush toilet, bathtub or shower, and wash basin with piped water.</i> <i>A half bathroom has at least a flush toilet or bathtub or shower, but does not have all the facilities for a complete bathroom.</i> <ul style="list-style-type: none"> <input type="radio"/> No bathroom, or only a half bathroom <input type="radio"/> 1 complete bathroom <input type="radio"/> 1 complete bathroom, plus half bath(s) <input type="radio"/> 2 or more complete bathrooms 	0 0 0 0 1 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4 5 5 5 5 6 6 6 6 7 7 7 7 8 8 8 8 9 9 9 9
H19. When did the person listed in column 1 move into this house (or apartment)? <ul style="list-style-type: none"> <input type="radio"/> 1979 or 1980 <input type="radio"/> 1975 to 1978 <input type="radio"/> 1970 to 1974 <input type="radio"/> 1960 to 1969 <input type="radio"/> 1950 to 1959 <input type="radio"/> 1949 or earlier <input type="radio"/> Always lived here 	H26. Do you have a telephone in your living quarters? <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No 	0 0 0 0 1 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4 5 5 5 5 6 6 6 6 7 7 7 7 8 8 8 8 9 9 9 9
H20. How are your living quarters heated? <i>Fill one circle for the kind of heat used most.</i> <ul style="list-style-type: none"> <input type="radio"/> Steam or hot water system <input type="radio"/> Central warm-air furnace with ducts to the individual rooms (Do not count electric heat pumps here) <input type="radio"/> Electric heat pump <input type="radio"/> Other built-in electric units (permanently installed in wall, ceiling, or baseboard) <input type="radio"/> Floor, wall, or pipeless furnace <input type="radio"/> Room heaters with flue or vent, burning gas, oil, or kerosene <input type="radio"/> Room heaters without flue or vent, burning gas, oil, or kerosene (not portable) <input type="radio"/> Fireplaces, stoves, or portable room heaters of any kind <input type="radio"/> No heating equipment 	H27. Do you have air conditioning? <ul style="list-style-type: none"> <input type="radio"/> Yes, a central air-conditioning system <input type="radio"/> Yes, 1 individual room unit <input type="radio"/> Yes, 2 or more individual room units <input type="radio"/> No H28. How many automobiles are kept at home for use by members of your household? <ul style="list-style-type: none"> <input type="radio"/> None <input type="radio"/> 1 automobile <input type="radio"/> 2 automobiles <input type="radio"/> 3 or more automobiles H29. How many vans or trucks of one-ton capacity or less are kept at home for use by members of your household? <ul style="list-style-type: none"> <input type="radio"/> None <input type="radio"/> 1 van or truck <input type="radio"/> 2 vans or trucks <input type="radio"/> 3 or more vans or trucks 	0 0 0 0 1 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4 5 5 5 5 6 6 6 6 7 7 7 7 8 8 8 8 9 9 9 9

FOR YOUR HOUSEHOLD

Please answer H30–H32 if you live in a one-family house which you own or are buying, unless this is –

- A mobile home or trailer
- A house on 10 or more acres
- A condominium unit
- A house with a commercial establishment or medical office on the property

If any of these, or if you rent your unit or this is a multi-family structure, skip H30 to H32 and turn to page 6.

H30. What were the real estate taxes on this property last year?

\$ _____ .00 OR ☐ None

H31. What is the annual premium for fire and hazard insurance on this property?

\$ _____ .00 OR ☐ None

H32a. Do you have a mortgage, deed of trust, contract to purchase, or similar debt on this property?

☐ Yes, mortgage, deed of trust, or similar debt
☐ Yes, contract to purchase
☐ No — Skip to page 6

b. Do you have a second or junior mortgage on this property?

☐ Yes ☐ No

c. How much is your total regular monthly payment to the lender?
Also include payments on a contract to purchase and to lenders holding second or junior mortgages on this property.

\$ _____ .00 OR ☐ No regular payment required — Skip to page 6

d. Does your regular monthly payment (amount entered in H32c) include payments for real estate taxes on this property?

☐ Yes, taxes included in payment
☐ No, taxes paid separately or taxes not required

e. Does your regular monthly payment (amount entered in H32c) include payments for fire and hazard insurance on this property?

☐ Yes, insurance included in payment
☐ No, insurance paid separately or no insurance

Please turn to page 6

FOR CENSUS USE ONLY

	1	2	4	2	2	4	3	2	4
	S.S.	0 0 0 0 0 0 0 0	S.S.	0 0 0 0 0 0 0 0	S.S.	0 0 0 0 0 0 0 0			
	Yes	1 1 1 1 1 1 1 1	Yes	1 1 1 1 1 1 1 1	Yes	1 1 1 1 1 1 1 1			
	0	2 2 2 2 2 2 2 2	0	2 2 2 2 2 2 2 2	0	2 2 2 2 2 2 2 2			
	3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3						
	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4						
	5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5						
	6 6 6 6 6 6 6 6	6 6 6 6 6 6 6 6	6 6 6 6 6 6 6 6						
	7 7 7 7 7 7 7 7	7 7 7 7 7 7 7 7	7 7 7 7 7 7 7 7						
	8 8 8 8 8 8 8 8	8 8 8 8 8 8 8 8	8 8 8 8 8 8 8 8						
9 9 9 9 9 9 9 9	9 9 9 9 9 9 9 9	9 9 9 9 9 9 9 9							
	4	2	4	5	2	4	6	2	4
	S.S.	0 0 0 0 0 0 0 0	S.S.	0 0 0 0 0 0 0 0	S.S.	0 0 0 0 0 0 0 0			
	Yes	1 1 1 1 1 1 1 1	Yes	1 1 1 1 1 1 1 1	Yes	1 1 1 1 1 1 1 1			
	0	2 2 2 2 2 2 2 2	0	2 2 2 2 2 2 2 2	0	2 2 2 2 2 2 2 2			
	3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3						
	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4						
	5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5						
	6 6 6 6 6 6 6 6	6 6 6 6 6 6 6 6	6 6 6 6 6 6 6 6						
	7 7 7 7 7 7 7 7	7 7 7 7 7 7 7 7	7 7 7 7 7 7 7 7						
	8 8 8 8 8 8 8 8	8 8 8 8 8 8 8 8	8 8 8 8 8 8 8 8						
9 9 9 9 9 9 9 9	9 9 9 9 9 9 9 9	9 9 9 9 9 9 9 9							
	7	2	4	GQ.	H30.	H31.	H32c.		
	S.S.	0 0 0 0 0 0 0 0	S.S.	0 0 0 0 0 0 0 0	S.S.	0 0 0 0 0 0 0 0			
	Yes	1 1 1 1 1 1 1 1	Yes	1 1 1 1 1 1 1 1	Yes	1 1 1 1 1 1 1 1			
	0	2 2 2 2 2 2 2 2	0	2 2 2 2 2 2 2 2	0	2 2 2 2 2 2 2 2			
	3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3						
	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4						
	5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5						
	6 6 6 6 6 6 6 6	6 6 6 6 6 6 6 6	6 6 6 6 6 6 6 6						
	7 7 7 7 7 7 7 7	7 7 7 7 7 7 7 7	7 7 7 7 7 7 7 7						
	8 8 8 8 8 8 8 8	8 8 8 8 8 8 8 8	8 8 8 8 8 8 8 8						
9 9 9 9 9 9 9 9	9 9 9 9 9 9 9 9	9 9 9 9 9 9 9 9							

<p>Name of Person 1 on page 2:</p> <p style="text-align: center;">Last name First name Middle initial</p> <hr/> <p>11. In what State or foreign country was this person born? <i>Print the State where this person's mother was living when this person was born. Do not give the location of the hospital unless the mother's home and the hospital were in the same State.</i></p> <p style="text-align: center;">Name of State or foreign country; or Puerto Rico, Guam, etc.</p> <hr/> <p>12. If this person was born in a foreign country — a. Is this person a naturalized citizen of the United States? <input type="radio"/> Yes, a naturalized citizen <input type="radio"/> No, not a citizen <input type="radio"/> Born abroad of American parents</p> <hr/> <p>b. When did this person come to the United States to stay? <input type="radio"/> 1975 to 1980 <input type="radio"/> 1965 to 1969 <input type="radio"/> 1950 to 1959 <input type="radio"/> 1970 to 1974 <input type="radio"/> 1960 to 1964 <input type="radio"/> Before 1950</p> <hr/> <p>13a. Does this person speak a language other than English at home? <input type="radio"/> Yes <input type="radio"/> No, only speaks English — <i>Skip to 14</i></p> <hr/> <p>b. What is this language? _____ <i>(For example — Chinese, Italian, Spanish, etc.)</i></p> <hr/> <p>c. How well does this person speak English? <input type="radio"/> Very well <input type="radio"/> Not well <input type="radio"/> Well <input type="radio"/> Not at all</p> <hr/> <p>14. What is this person's ancestry? If uncertain about how to report ancestry, see instruction guide. _____ <i>(For example: Afro-Amer., English, French, German, Honduran, Hungarian, Irish, Italian, Jamaican, Korean, Lebanese, Mexican, Nigerian, Polish, Ukrainian, Venezuelan, etc.)</i></p> <hr/> <p>15a. Did this person live in this house five years ago (April 1, 1975)? <i>If in college or Armed Forces in April 1975, report place of residence there.</i> <input type="radio"/> Born April 1975 or later — <i>Turn to next page for next person</i> <input type="radio"/> Yes, this house — <i>Skip to 16</i> <input type="radio"/> No, different house</p> <hr/> <p>b. Where did this person live five years ago (April 1, 1975)? (1) State, foreign country, Puerto Rico, Guam, etc.: _____ (2) County: _____ (3) City, town, village, etc.: _____ (4) Inside the incorporated (legal) limits of that city, town, village, etc.? <input type="radio"/> Yes <input type="radio"/> No, in unincorporated area</p>	<p>16. When was this person born? <input type="radio"/> Born before April 1965 — <i>Please go on with questions 17-33</i> <input type="radio"/> Born April 1965 or later — <i>Turn to next page for next person</i></p> <hr/> <p>17. In April 1975 (five years ago) was this person — a. On active duty in the Armed Forces? <input type="radio"/> Yes <input type="radio"/> No</p> <hr/> <p>b. Attending college? <input type="radio"/> Yes <input type="radio"/> No</p> <hr/> <p>c. Working at a job or business? <input type="radio"/> Yes, full time <input type="radio"/> No <input type="radio"/> Yes, part time</p> <hr/> <p>18a. Is this person a veteran of active-duty military service in the Armed Forces of the United States? <i>If service was in National Guard or Reserves only, see instruction guide.</i> <input type="radio"/> Yes <input type="radio"/> No — <i>Skip to 19</i></p> <hr/> <p>b. Was active-duty military service during — <i>Fill a circle for each period in which this person served.</i> <input type="radio"/> May 1975 or later <input type="radio"/> Vietnam era (August 1964–April 1975) <input type="radio"/> February 1955–July 1964 <input type="radio"/> Korean conflict (June 1950–January 1955) <input type="radio"/> World War II (September 1940–July 1947) <input type="radio"/> World War I (April 1917–November 1918) <input type="radio"/> Any other time</p> <hr/> <p>19. Does this person have a physical, mental, or other health condition which has lasted for 6 or more months and which . . . <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;"></td> <td style="text-align: center; width: 10%;">Yes</td> <td style="text-align: center; width: 10%;">No</td> </tr> <tr> <td>a. Limits the kind or amount of work this person can do at a job?</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td>b. Prevents this person from working at a job?</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td>c. Limits or prevents this person from using public transportation?</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> </table> </p> <hr/> <p>20. If this person is a female — None 1 2 3 4 5 6 How many babies has she ever had, not counting stillbirths? <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> 6 <i>Do not count her stepchildren or children she has adopted.</i> <input type="radio"/> 7 <input type="radio"/> 8 <input type="radio"/> 9 <input type="radio"/> 10 <input type="radio"/> 11 <input type="radio"/> 12 or more</p> <hr/> <p>21. If this person has ever been married — a. Has this person been married more than once? <input type="radio"/> Once <input type="radio"/> More than once</p> <hr/> <p>b. Month and year of marriage? Month and year of first marriage? _____ (Month) (Year) (Month) (Year)</p> <hr/> <p>c. If married more than once — Did the first marriage end because of the death of the husband (or wife)? <input type="radio"/> Yes <input type="radio"/> No</p>		Yes	No	a. Limits the kind or amount of work this person can do at a job?	<input type="radio"/>	<input type="radio"/>	b. Prevents this person from working at a job?	<input type="radio"/>	<input type="radio"/>	c. Limits or prevents this person from using public transportation?	<input type="radio"/>	<input type="radio"/>	<p>22a. Did this person work at any time last week? <input type="radio"/> Yes — <i>Fill this circle if this person worked full time or part time. (Count part-time work such as delivering papers, or helping without pay in a family business or farm. Also count active duty in the Armed Forces.)</i> <input type="radio"/> No — <i>Fill this circle if this person did not work, or did only odd housework, school work, or volunteer work.</i> <div style="text-align: right;"><i>Skip to 25</i></div></p> <hr/> <p>b. How many hours did this person work last week (at all jobs)? <i>Subtract any time off; add overtime or extra hours worked.</i> _____ Hours</p> <hr/> <p>23. At what location did this person work last week? <i>If this person worked at more than one location, print where he or she worked most last week.</i> <i>If one location cannot be specified, see instruction guide.</i> a. Address (Number and street) _____ <i>If street address is not known, enter the building name, shopping center, or other physical location description.</i> b. Name of city, town, village, borough, etc. _____ c. Is the place of work inside the incorporated (legal) limits of that city, town, village, borough, etc.? <input type="radio"/> Yes <input type="radio"/> No, in unincorporated area d. County _____ e. State _____ f. ZIP Code _____</p> <hr/> <p>24a. Last week, how long did it usually take this person to get from home to work (one way)? _____ Minutes</p> <hr/> <p>b. How did this person usually get to work last week? <i>If this person used more than one method, give the one usually used for most of the distance.</i> <input type="radio"/> Car <input type="radio"/> Taxicab <input type="radio"/> Truck <input type="radio"/> Motorcycle <input type="radio"/> Van <input type="radio"/> Bicycle <input type="radio"/> Bus or streetcar <input type="radio"/> Walked only <input type="radio"/> Railroad <input type="radio"/> Worked at home <input type="radio"/> Subway or elevated <input type="radio"/> Other — <i>Specify</i> _____</p> <p style="text-align: right;"><i>If car, truck, or van in 24b, go to 24c. Otherwise, skip to 28.</i></p>
	Yes	No												
a. Limits the kind or amount of work this person can do at a job?	<input type="radio"/>	<input type="radio"/>												
b. Prevents this person from working at a job?	<input type="radio"/>	<input type="radio"/>												
c. Limits or prevents this person from using public transportation?	<input type="radio"/>	<input type="radio"/>												

FOR CENSUS USE ONLY

Per. No.	11.	13b.	14.	15b.	23.	VL	24a.
1	0 0 0	0 0 0	1 1 1	0 0 0	0 0 0	0 0 0	0 0 0
2	1 1 1	1 1 1	2 2 2	1 1 1	1 1 1	1 1 1	1 1 1
3	2 2 2	2 2 2	3 3 3	2 2 2	2 2 2	2 2 2	2 2 2
4	3 3 3	3 3 3	4 4 4	3 3 3	3 3 3	3 3 3	3 3 3
5	4 4 4	4 4 4	5 5 5	4 4 4	4 4 4	4 4 4	4 4 4
6	5 5 5	5 5 5	6 6 6	5 5 5	5 5 5	5 5 5	5 5 5
7	6 6 6	6 6 6	7 7 7	6 6 6	6 6 6	6 6 6	6 6 6
8	7 7 7	7 7 7	8 8 8	7 7 7	7 7 7	7 7 7	7 7 7
9	8 8 8	8 8 8	9 9 9	8 8 8	8 8 8	8 8 8	8 8 8
0	9 9 9	9 9 9	0 0 0	9 9 9	9 9 9	9 9 9	9 9 9

PERSON 1 ON PAGE 2

Page 7

c. When going to work last week, did this person usually — <input type="radio"/> Drive alone — Skip to 28 <input type="radio"/> Drive others only <input type="radio"/> Share driving <input type="radio"/> Ride as passenger only	CENSUS USE 21b. I 1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9	31a. Last year (1979), did this person work, even for a few days, at a paid job or in a business or farm? <input type="radio"/> Yes <input checked="" type="checkbox"/> <input type="radio"/> No — Skip to 31d	CENSUS USE ONLY 31b. 31c. 31d. 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 7 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9
d. How many people, including this person, usually rode to work in the car, truck, or van last week? <input type="radio"/> 2 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 3 <input checked="" type="radio"/> 5 <input type="radio"/> 7 or more	1 1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9	b. How many weeks did this person work in 1979? Count paid vacation, paid sick leave, and military service. _____ Weeks	1 1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9
25. Was this person temporarily absent or on layoff from a job or business last week? <input type="radio"/> Yes, on layoff <input type="radio"/> Yes, on vacation, temporary illness, labor dispute, etc. <input type="radio"/> No	1 1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9	c. During the weeks worked in 1979, how many hours did this person usually work each week? _____ Hours	1 1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9
26a. Has this person been looking for work during the last 4 weeks? <input type="radio"/> Yes <input type="radio"/> No — Skip to 27	1 1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9	d. Of the weeks not worked in 1979 (if any), how many weeks was this person looking for work or on layoff from a job? _____ Weeks	32a. 32b. 1 1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 3 4 4 4 4 4 4 5 5 5 5 5 5 6 6 6 6 6 6 7 7 7 7 7 7 8 8 8 8 8 8 9 9 9 9 9 9
b. Could this person have taken a job last week? <input type="radio"/> No, already has a job <input type="radio"/> No, temporarily ill <input type="radio"/> No, other reasons (in school, etc.) <input type="radio"/> Yes, could have taken a job	1 1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9	32. Income in 1979 — Fill circles and print dollar amounts. If net income was a loss, write "Loss" above the dollar amount. If exact amount is not known, give best estimate. For income received jointly by household members, see instruction guide. During 1979 did this person receive any income from the following sources? If "Yes" to any of the sources below — How much did this person receive for the entire year? a. Wages, salary, commissions, bonuses, or tips from all jobs . . . Report amount before deductions for taxes, bonds, dues, or other items. <input type="radio"/> Yes → \$ _____ .00 <input type="radio"/> No (Annual amount — Dollars)	1 1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 3 4 4 4 4 4 4 5 5 5 5 5 5 6 6 6 6 6 6 7 7 7 7 7 7 8 8 8 8 8 8 9 9 9 9 9 9
27. When did this person last work, even for a few days? <input type="radio"/> 1980 <input type="radio"/> 1978 <input type="radio"/> 1970 to 1974 <input type="radio"/> 1979 <input type="radio"/> 1975 to 1977 <input type="radio"/> 1969 or earlier <input type="radio"/> Never worked } Skip to 31d	28. A B C 1 1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9	b. Own nonfarm business, partnership, or professional practice . . . Report net income after business expenses. <input type="radio"/> Yes → \$ _____ .00 <input type="radio"/> No (Annual amount — Dollars)	32c. 32d. 1 1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 3 4 4 4 4 4 4 5 5 5 5 5 5 6 6 6 6 6 6 7 7 7 7 7 7 8 8 8 8 8 8 9 9 9 9 9 9
28–30. Current or most recent job activity Describe clearly this person's chief job activity or business last week. If this person had more than one job, describe the one at which this person worked the most hours. If this person had no job or business last week, give information for last job or business since 1975.	D E F 1 1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9	c. Own farm . . . Report net income after operating expenses. Include earnings as a tenant farmer or sharecropper. <input type="radio"/> Yes → \$ _____ .00 <input type="radio"/> No (Annual amount — Dollars)	32e. 32f. 1 1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 3 4 4 4 4 4 4 5 5 5 5 5 5 6 6 6 6 6 6 7 7 7 7 7 7 8 8 8 8 8 8 9 9 9 9 9 9
28. Industry a. For whom did this person work? If now on active duty in the Armed Forces, print "AF" and skip to question 31. (Name of company, business, organization, or other employer)	G H J 1 1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9	d. Interest, dividends, royalties, or net rental income . . . Report even small amounts credited to an account. <input type="radio"/> Yes → \$ _____ .00 <input type="radio"/> No (Annual amount — Dollars)	32g. 33. 1 1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 3 4 4 4 4 4 4 5 5 5 5 5 5 6 6 6 6 6 6 7 7 7 7 7 7 8 8 8 8 8 8 9 9 9 9 9 9
b. What kind of business or industry was this? Describe the activity at location where employed. (For example: Hospital, newspaper publishing, mail order house, auto engine manufacturing, breakfast cereal manufacturing)	K L M 1 1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9	e. Social Security or Railroad Retirement . . . <input type="radio"/> Yes → \$ _____ .00 <input type="radio"/> No (Annual amount — Dollars)	1 1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 3 4 4 4 4 4 4 5 5 5 5 5 5 6 6 6 6 6 6 7 7 7 7 7 7 8 8 8 8 8 8 9 9 9 9 9 9
c. Is this mainly — (Fill one circle) Manufacturing <input checked="" type="radio"/> <input type="radio"/> Retail trade Wholesale trade <input type="radio"/> Other — (agriculture, construction, service, government, etc.)	N P Q 1 1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9	f. Supplemental Security (SSI), Aid to Families with Dependent Children (AFDC), or other public assistance or public welfare payments . . . <input type="radio"/> Yes → \$ _____ .00 <input type="radio"/> No (Annual amount — Dollars)	1 1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 3 4 4 4 4 4 4 5 5 5 5 5 5 6 6 6 6 6 6 7 7 7 7 7 7 8 8 8 8 8 8 9 9 9 9 9 9
29. Occupation a. What kind of work was this person doing? (For example: Registered nurse, personnel manager, supervisor of order department, gasoline engine assembler, grinder operator)	R S T 1 1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9	g. Unemployment compensation, veterans' payments, pensions, alimony or child support, or any other sources of income received regularly . . . Exclude lump-sum payments such as money from an inheritance or the sale of a home. <input type="radio"/> Yes → \$ _____ .00 <input type="radio"/> No (Annual amount — Dollars)	1 1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 3 4 4 4 4 4 4 5 5 5 5 5 5 6 6 6 6 6 6 7 7 7 7 7 7 8 8 8 8 8 8 9 9 9 9 9 9
b. What were this person's most important activities or duties? (For example: Patient care, directing hiring policies, supervising order clerks, assembling engines, operating grinding mill)	U V W 1 1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9	33. What was this person's total income in 1979? Add entries in questions 32a through g; subtract any losses. \$ _____ .00 (Annual amount — Dollars) If total amount was a loss, write "Loss" above amount. OR <input type="radio"/> None	1 1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 3 4 4 4 4 4 4 5 5 5 5 5 5 6 6 6 6 6 6 7 7 7 7 7 7 8 8 8 8 8 8 9 9 9 9 9 9
30. Was this person — (Fill one circle) Employee of private company, business, or individual, for wages, salary, or commissions <input checked="" type="radio"/> Federal government employee <input type="radio"/> State government employee <input type="radio"/> Local government employee (city, county, etc.) <input type="radio"/> Self-employed in own business, professional practice, or farm — Own business not incorporated <input type="radio"/> Own business incorporated <input type="radio"/> Working without pay in family business or farm <input type="radio"/>	X Y Z 1 1 1 2 2 2 3 3 3 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 9		

→ Please turn to the next page and answer the questions for Person 2 on page 2

Appendix E.—Publication and Computer Tape Program

GENERAL	E-1
PUBLICATIONS	E-1
Population and Housing Census Reports	E-1
PHC80-1, Block Statistics	E-1
PHC80-2, Census Tracts	E-2
PHC80-3, Summary Characteristics for Governmental Units and Standard Metropolitan Statistical Areas	E-2
PHC80-4, Congressional Districts of the 98th Congress	E-2
PHC80-S1-1, Provisional Estimates of Social, Economic, and Housing Characteristics	E-2
PHC80-S2, Advance Estimates of Social, Economic, and Housing Characteristics	E-2
Population Census Reports	E-2
PC80-1, Volume 1, Characteristics of the Population	E-2
PC80-1-A, Chapter A, Number of Inhabitants	E-2
PC80-1-B, Chapter B, General Population Characteristics	E-2
PC80-1-C, Chapter C, General Social and Economic Characteristics	E-3
PC80-1-D, Chapter D, Detailed Population Characteristics	E-3
PC80-2, Volume 2, Subject Reports	E-3
PC80-S1, Supplementary Reports	E-3
Housing Census Reports	E-3
HC80-1, Volume 1, Characteristics of Housing Units	E-3
HC80-1-A, Chapter A, General Housing Characteristics	E-3
HC80-1-B, Chapter B, Detailed Housing Characteristics	E-3
HC80-2, Volume 2, Metropolitan Housing Characteristics	E-3
HC80-3, Volume 3, Subject Reports	E-3
HC80-4, Volume 4, Components of Inventory Change	E-3

PUBLICATIONS—Con.	
HC80-5, Volume 5, Residential Finance	E-4
HC80-S1-1, Supplementary Reports	E-4
Evaluation and Reference Reports	E-4
PHC80-E, Evaluation and Research Reports	E-4
PHC80-R, Reference Reports	E-4
PHC80-R1, Users' Guide	E-4
PHC80-R2, History	E-4
PHC80-R3, Alphabetical Index of Industries and Occupations	E-4
PHC80-R4, Classified Index of Industries and Occupations	E-4
PHC80-R5, Geographic Identification Code Scheme	E-4
COMPUTER TAPES	E-4
Summary Tape Files	E-4
STF 1	E-4
STF 2	E-4
STF 3	E-4
STF 4	E-5
STF 5	E-5
Other Computer Tape Files	E-5
P.L. 94-171, Population Counts	E-5
Master Area Reference Files 1 and 2 (MARF)	E-5
Geographic Base File/Dual Independent Map Encoding (GBF/DIME)	E-5
Public-Use Microdata Samples	E-5
Census/EEO Special File	E-5
MAPS	E-5
MICROFICHE	E-5
STF 1 Microfiche	E-5
STF 3 Microfiche	E-5
P.L. 94-171 Counts Microfiche	E-5

GENERAL

The results of the 1980 Census of Population and Housing are issued in three forms: printed reports, computer tape

files, and microfiche. Most of the reports listed are issued on a flow basis through 1983. A few may be issued later, such as Subject Reports and Evaluation and Reference Reports.

The publications of the 1980 census are released under three subject titles: *1980 Census of Population and Housing*, *1980 Census of Population*, and *1980 Census of Housing*. The description of the publication program below is organized in sections, by census title, followed by the reports under each title. It should be noted that a number of population census reports contain some housing data and a number of housing census reports contain some population data. Following the description of the publication program are sections on computer tapes, maps, and microfiche.

The data product descriptions include listings of geographic areas for which data are summarized in that product. Note that the term "place" refers to incorporated places and census designated (or unincorporated) places, as well as towns and townships in 11 States (the 6 New England States, the 3 Middle Atlantic States, Michigan, and Wisconsin).

Order forms for these materials are available, subject to availability of the data product, from Data User Services Division, Customer Services, Bureau of the Census, Washington, D.C. 20233; Census Bureau Regional Offices; U.S. Department of Commerce District Offices; and State Data Centers. After issuance, census reports are on file in many libraries and are available for examination at any Department of Commerce District Office or Census Bureau Regional Office.

PUBLICATIONS

Population and Housing Census Reports

PHC80-1, Block Statistics—These reports, which are issued on microfiche rather

than in print form, present population and housing unit totals and statistics on selected characteristics which are based on complete-count tabulations. Data are shown for blocks in urbanized areas and selected adjacent areas, for blocks in places of 10,000 or more inhabitants, and for blocks in areas which contracted with the Census Bureau to provide block statistics.

The set of reports consists of 374 sets of microfiche and includes a report for each standard metropolitan statistical area (SMSA), showing blocked areas within the SMSA, and a report for each State and for Puerto Rico, showing blocked areas outside SMSA's. In addition to microfiche, printed detailed maps showing the blocks covered by the particular report are available as well as a U.S. Summary, which is an index to the set.

PHC80-2, Census Tracts—Statistics for most of the population and housing subjects included in the 1980 census are presented for census tracts in SMSA's and in other tracted areas. Both complete-count data and sample data are included. Most statistics are presented by race and Spanish origin for areas with at least a specified number of persons in the relevant population group.

There is one report for each SMSA, as well as one for each of the States and Puerto Rico which have tracted areas outside SMSA's. In addition, maps showing the boundaries and identification numbers of census tracts in the SMSA are available as well as a U.S. Summary, which is an index to the set.

PHC80-3, Summary Characteristics for Governmental Units and Standard Metropolitan Statistical Areas—Statistics are presented on total population and on complete-count and sample population characteristics such as age, race, education, disability, ability to speak English, labor force, and income, and on total housing units and housing characteristics such as value, age of structure, and rent. These statistics are shown for the following areas or their equivalents: States, SMSA's, counties, county subdivisions (those which are functioning general-purpose local governments), and incorporated places.

There is one report for each State, the District of Columbia, and Puerto Rico.

This series does not include a U.S. Summary.

PHC80-4, Congressional Districts of the 98th Congress—These reports present complete-count and sample data for congressional districts of the 98th Congress. The reports reflect redistricting based on the 1982 elections. One report is issued for each of the 50 States and the District of Columbia.

PHC80-S1-1, Provisional Estimates of Social, Economic, and Housing Characteristics—This report presents provisional estimates based on sample data collected in the 1980 census. Data on social, economic, and housing characteristics are shown for the United States as a whole, each State, the District of Columbia, and SMSA's of 1 million or more inhabitants.

These data are based on a special subsample of the full census sample. The sample, which represents about 1.6 percent of the total population, was developed to provide users with initial data on characteristics of the population and housing units for the Nation and large areas.

PHC80-S2, Advance Estimates of Social, Economic, and Housing Characteristics—These reports present advance sample data from the 1980 census including such social and economic characteristics of the population as education, migration, labor force, and income as well as housing characteristics such as structural information, mortgage, and gross rent.

The set consists of 50 paperbound reports and includes one report for each State and the District of Columbia. No report will be issued for the United States as a whole.

Each report presents population and housing characteristics for the State, its counties or comparable areas, and places of 25,000 or more inhabitants. Selected data are shown for four race groups (White; Black; combined American Indian, Eskimo, and Aleut; and Asian and Pacific Islander) as well as for persons of Spanish origin.

Population Census Reports

PC80-1, Volume 1, Characteristics of the Population—This volume presents final

population counts and statistics on population characteristics. It consists of reports for the following 57 areas: the United States, each of the 50 States, the District of Columbia, Puerto Rico, and the Outlying Areas—Guam, the Virgin Islands of the United States, American Samoa, and the Northern Mariana Islands and the remainder of the Trust Territory of the Pacific Islands. The volume consists of four chapters for each area, chapters A, B, C, and D. Chapters A and B present data collected on a complete-count basis, and chapters C and D present estimates based on sample information, except for the Outlying Areas where all data were collected on a complete-count basis.

The population totals presented in chapters A and B may differ from the counts presented earlier in the PHC80-V reports because corrections were made for errors found after the PHC80-V reports were issued. Chapters B, C, and D present statistics by race and Spanish origin for areas with at least a specified number of the relevant population group.

The U.S. Summary reports present statistics for the United States, regions, divisions, States, and selected areas below the State level. The State or equivalent Area reports (which include the District of Columbia, Puerto Rico, and the Outlying Areas) present statistics for the State or equivalent area and its subdivisions.

Statistics for each of the 57 areas are issued in separate paperbound reports of chapters A, B, C, and D.

PC80-1-A, Chapter A, Number of Inhabitants—Final population counts are shown for the following areas or their equivalents: States, counties, county subdivisions, incorporated places and census designated places, standard consolidated statistical areas (SCSA's), SMSA's, and urbanized areas. Selected tables contain population counts by urban and rural residence. Many tables contain population counts from previous censuses.

PC80-1-B, Chapter B, General Population Characteristics—Statistics on household relationship, age, race, Spanish origin, sex, and marital status are shown for the following areas or their equivalents: States, counties (by total and rural residence), county subdivisions, places of 1,000 or more inhabitants, SCSA's,

SMSA's, urbanized areas, American Indian reservations, and Alaska Native villages.

PC80-1-C, Chapter C, General Social and Economic Characteristics—Statistics are presented on nativity, State or country of birth, citizenship and year of immigration for the foreign-born population, language spoken at home and ability to speak English, ancestry, fertility, family composition, type of group quarters, marital history, residence in 1975, journey to work, school enrollment, years of school completed, disability, veteran status, labor force status, occupation, industry, class of worker, labor force status in 1979, income in 1979, and poverty status in 1979. In addition, data on subjects shown in the PC80-1-B reports are presented in this report in more detail.

Each subject is shown for some or all of the following areas or their equivalents: States, counties (by rural and rural-farm residence), places of 2,500 or more inhabitants, SCSA's, SMSA's, urbanized areas, American Indian reservations, and Alaska Native villages.

PC80-1-D, Chapter D, Detailed Population Characteristics—Statistics on most of the subjects covered in the PC80-1-C reports are presented in this report in considerably greater detail and cross-classified by age, race, Spanish origin, and other characteristics. Each subject is shown for the State or equivalent area, and some subjects are also shown for rural residence at the State level. Most subjects are shown for SMSA's of 250,000 or more inhabitants, and a few are shown for central cities of these SMSA's.

PC80-2, Volume 2, Subject Reports—Each of the reports in this volume focuses on a particular subject and provides highly detailed distributions and cross-classifications on a national, regional, and divisional level. A few reports show statistics for States, SMSA's, large cities, American Indian reservations, or Alaska Native villages. Separate reports are issued on such subjects as racial and ethnic groups, type of residence, fertility, families, marital status, migration, education, employment, occupation, industry, journey to work, income, poverty status, and other topics.

PC80-S1, Supplementary Reports—These reports present special compilations of

1980 census statistics dealing with specific population subjects.

Housing Census Reports

HC80-1, Volume 1, Characteristics of Housing Units—This volume presents final housing unit counts and statistics on housing characteristics. It consists of reports for the following 57 areas: the United States, each of the 50 States, the District of Columbia, Puerto Rico, and the Outlying Areas—Guam, the Virgin Islands of the United States, American Samoa, and the Northern Mariana Islands and the remainder of the Trust Territory of the Pacific Islands. The volume consists of two chapters for each area, chapters A and B. Chapter A presents data collected on a complete-count basis, and chapter B presents estimates based on sample information, except for the Outlying Areas where all data were collected on a complete-count basis.

The housing totals presented in this report may differ from the counts presented earlier in the PHC80-V reports because corrections were made for errors found after the PHC80-V reports were issued. Both chapters present statistics by race and Spanish origin for areas with at least a specified number of the relevant population group.

The U.S. Summary reports present statistics for the United States, regions, divisions, States, and selected areas below the State level. The State or equivalent Area reports (which include the District of Columbia, Puerto Rico, and the Outlying Areas) present statistics for the State or equivalent area and its subdivisions.

Statistics for each of the 57 areas are issued in separate paperbound reports of chapters A and B.

HC80-1-A, Chapter A, General Housing Characteristics—Statistics on units at address, tenure, condominium status, number of rooms, persons per room, plumbing facilities, value, contract rent, and vacancy status are shown for some or all of the following areas or their equivalents: States, counties, county subdivisions, places of 1,000 or more inhabitants, SCSA's, SMSA's, urbanized areas, American Indian reservations, and Alaska Native villages. Selected tables contain housing characteristics by urban and rural residence.

HC80-1-B, Chapter B, Detailed Housing Characteristics—Statistics on units in structure, year moved into unit, year structure built, heating equipment, fuels, air-conditioning, source of water, sewage disposal, gross rent, and selected monthly ownership costs are shown for some or all of the following areas or their equivalents: States, counties, places of 2,500 or more inhabitants, SCSA's, SMSA's, urbanized areas, American Indian reservations, and Alaska Native villages. Selected tables show housing characteristics for rural and rural farm residence at the State and county level. Some subjects included in the HC80-1-A reports are also covered in this report in more detail.

HC80-2, Volume 2, Metropolitan Housing Characteristics—This volume presents statistics on most of the 1980 housing census subjects in considerable detail and cross-classification. Most statistics are presented by race and Spanish origin for areas with at least a specified number of the relevant population group. Data are shown for States or equivalent areas, SMSA's and their central cities, and other cities of 50,000 or more inhabitants.

There is one report for each SMSA and one report for each State and Puerto Rico. The set includes a U.S. Summary report showing these statistics for the United States and regions.

HC80-3, Volume 3, Subject Reports—Each of the reports in this volume focuses on a particular subject and provides highly detailed distributions and cross-classifications on a national, regional, and divisional level. Separate reports are issued on housing of the elderly, mobile homes, and American Indian households.

HC80-4, Volume 4, Components of Inventory Change—This volume consists of two reports presenting statistics on the 1980 characteristics of housing units which existed in 1973, as well as on newly constructed units, conversions, mergers, demolitions, and other additions and losses to the housing inventory between 1973 and 1980. These reports present data derived from a sample survey conducted in the fall of 1980. Data are presented for the United States and regions in report I. Report II has two parts: Part A presents data for that group of SMSA's (not individually identified)

with populations of 1 million or more at the time of the 1970 census, and part B presents data for that group of SMSA's (not individually identified) with populations of less than 1 million at the time of the 1970 census.

HC80-5, Volume 5, Residential Finance—

This volume consists of one report presenting statistics on the financing of non-farm homeowner and rental and vacant properties, including characteristics of the mortgage, property, and owner. The statistics are based on a sample survey conducted in the spring of 1981. Data are presented for the United States and regions. Some data are presented by inside and outside SMSA's and by central cities.

HC80-S1-1, Supplementary Reports—

These reports present statistics from the 1980 Census of Housing on general characteristics of housing units for the 50 States and the District of Columbia, counties, and independent cities.

Evaluation and Reference Reports

PHC80-E, Evaluation and Research Reports—

These reports present the results of the extensive evaluation program conducted as an integral part of the 1980 census. This program relates to such matters as completeness of enumeration and quality of the data on characteristics.

PHC80-R, Reference Reports—These reports present information on the various administrative and methodological aspects of the 1980 census. The series includes:

PHC80-R1, Users' Guide—This report covers subject content, procedures, geography, statistical products, limitations of the data, sources of user assistance, notes on data use, a glossary of terms, and guides for locating data in reports and tape files. The guide is issued in loose-leaf form and sold in parts (R1-A, B, etc.) as they are printed.

PHC80-R2, History—This report describes in detail all phases of the 1980 census, from the earliest planning through all stages to the dissemination of data and evaluation of results. It contains detailed discussion of 1980 census questions and their use in previous decennial censuses.

PHC80-R3, Alphabetical Index of Industries and Occupations—This report was developed primarily for use in classifying responses to the questions on the kind of business (industry) and kind of work (occupation) in which the respondent is engaged. The index lists approximately 20,000 industry and 29,000 occupation titles in alphabetical order.

PHC80-R4, Classified Index of Industries and Occupations—This report defines the industrial and occupational classification systems adopted for the 1980 Census of Population. It presents the individual titles that constitute each of the 231 industry and 503 occupation categories in the classification systems. The individual titles are the same as those shown in the Alphabetical Index. The 1980 occupation classification reflects the new U.S. Standard Occupational Classification (SOC). As in the past, the 1980 industry classification reflects the Standard Industrial Classification (SIC).

PHC80-R5, Geographic Identification Code Scheme—This report identifies the names and related geographic codes for each State, county, minor civil division, place, region, division, SCSA, SMSA, American Indian reservation, and Alaska Native village for which the Census Bureau tabulated data from the 1980 census.

COMPUTER TAPES

Summary Tape Files

In addition to the printed and microfiche reports, results of the 1980 census also are provided on computer tape in the form of summary tape files (STF's). These data products have been designed to provide statistics with greater subject and geographic detail than is feasible or desirable to provide in printed and microfiche reports. The STF data are made available at nominal cost. The data are subject to suppression of certain detail where necessary to protect confidentiality.

There are five STF's (listed below), and the amount of geographic and subject detail presented varies. STF's 1 and 2 contain complete-count data, and STF's 3, 4, and 5 contain sample data. Note that the term "cells" used below refers

to the number of subject statistics provided for each geographic area, and the number of cells is indicative of the detail of the subject content of the file.

Each of the STF's generally consists of two or more files which provide different degrees of geographic detail and, in some cases, race/Spanish origin cross-classification. For each of the files there is a separate tape or tapes for each State, the District of Columbia, and Puerto Rico. Selected files (STF 1 and STF 3) are also produced for Guam, the Virgin Islands of the United States, American Samoa, and the Northern Mariana Islands and the remainder of the Trust Territory of the Pacific Islands. These tapes are issued on a State-by-State basis and are followed by a national summary tape for the particular file. More complete descriptions of the STF's than given in the summaries below can be found in the technical documentation of the specific file and in the PHC80-R1, *Users' Guide*.

STF 1—This STF provides 321 cells of complete-count population and housing data. Data are summarized for the United States, regions, divisions, States, SCSA's, SMSA's, urbanized areas, congressional districts, counties, county subdivisions, places, census tracts, enumeration districts in unblocked areas, and blocks and block groups in blocked areas. The data include those shown in the PHC80-1, PHC80-3 (complete-count), and PC80-1-A reports.

STF 2—This STF contains 2,292 cells of detailed complete-count population and housing data, of which 962 are repeated for each race and Spanish origin group present in the tabulation area. Data are summarized for the United States, regions, divisions, States, SCSA's, SMSA's, urbanized areas, counties, county subdivisions, places of 1,000 or more inhabitants, census tracts, American Indian reservations, and Alaska Native villages. The data include those shown in the PHC80-2 (complete-count), PC80-1-B, and HC80-1-A reports.

STF 3—This STF contains 1,126 cells of data on various population and housing subjects collected on a sample basis. The areas covered are the same as in STF 1, excluding blocks. The data include those shown in the PHC80-3 (sample) reports.

STF 4—This STF is the geographic counterpart of STF 2, but the number of cells of data is greater (approximately 8,400). STF 4 provides data covering virtually all of the population and housing subjects collected on a sample basis, as well as some of the complete-count subjects. Some of the statistics are repeated for race, Spanish origin, and ancestry groups. Data are summarized for areas similar to those shown in STF 2, except that data for places are limited to those with 2,500 or more inhabitants. The data include those shown in the PHC80-2 (sample), PC80-1-C, and HC80-1-B reports.

STF 5—This STF contains over 100,000 cells of data on various population and housing subjects collected on a sample basis and provides detailed tabulations and cross-classifications for States, SMSA's, counties, cities of 50,000 or more inhabitants and central cities. Most subjects are classified by race and Spanish origin. The data include those shown in the PC80-1-D and HC80-2 reports.

Other Computer Tape Files

P.L. 94-171, Population Counts—In accordance with Public Law (P.L.) 94-171, the Census Bureau provides population tabulations to all States for legislative reapportionment/redistricting. The file is issued on a State-by-State basis. It contains population counts classified by race and Spanish origin. The data are tabulated for the following levels of geography as applicable: States, counties, county subdivisions, incorporated places, census tracts, blocks and block groups in blocked areas, and enumeration districts in unblocked areas. For States participating in the voluntary program to define election precincts in conjunction with the Census Bureau, the data are also tabulated for election precincts.

Master Area Reference Files 1 and 2 (MARF)

MARF 1—This geographic reference file is an extract of STF 1 designed for those who require a master list of geographic codes and areas, along with basic census counts arranged hierarchically from the State down to the block group and enumeration district levels and is issued on a State-by-State basis. The file contains records for States, counties, county subdivisions, places, census tracts, enumeration districts in unblocked areas, and block groups in blocked areas. Each record shows the total population by five race groups, population of Spanish origin, number of housing units, number of households, number of families, and a few other items.

MARF 2—This file is the same as the MARF 1 with the latitude and longitude coordinates for a representative point (centroid) in each block group (BG) or enumeration district (ED) outside block numbered areas.

Geographic Base File/Dual Independent Map Encoding (GBF/DIME)—These files are computer representations of the Metropolitan Map Series, including address ranges and ZIP Codes, which generally cover the urbanized portions of SMSA's. GBF/DIME files are used to assign census geographic codes to addresses (geocoding). The files are available by SMSA.

Public-Use Microdata Samples—Public-use microdata samples are computerized files containing most population and housing characteristics as shown on a sample of individual census records. These files contain no names or addresses, and geographic identification is sufficiently broad to protect confidentiality.

There are three mutually exclusive samples, the A sample including 5 percent of all persons and housing units, and the

B and C samples each including 1 percent of all persons and housing units. States and most large SMSA's will be identifiable on one or more of the files. Microdata files allow the user to prepare customized tabulations.

Census/EEO Special File—This file provides sample census data with specified relevance to EEO and affirmative action uses. The file contains two tabulations, one with detailed occupational data and the other with years of school completed by age. The data in both tabulations are crossed by sex, race, and Spanish origin. These data are provided for all counties, for all SMSA's, and for places with a population of 50,000 or more.

MAPS

Maps necessary to define areas are generally published and included as part of the corresponding reports. Maps are published for Block Statistics (PHC80-1) and Census Tracts (PHC80-2), but must be purchased separately from the report. Maps necessary to define enumeration districts are available on a cost-of-reproduction basis.

MICROFICHE

Some of the computer tape products are available on microfiche. The STF microfiche are issued for each State or Area and for the United States. These include:

STF 1 Microfiche—Data from STF 1 are presented in tabular form for all the STF 1 geographic levels described previously, except blocks.

STF 3 Microfiche—Data from STF 3 are presented in tabular form for all the STF 3 geographic levels.

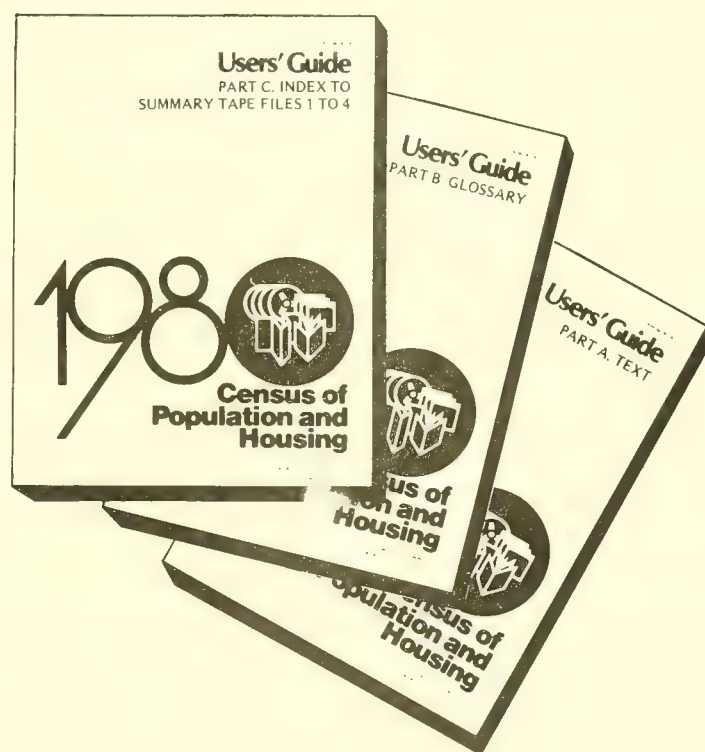
P.L. 94-171 Counts Microfiche—The data from the P.L. 94-171 computer file are presented in a listing format.

1980 Census of Population and Housing

Users' Guide

The Users' Guide, a reference work on the 1980 census, is now available. It consists of:

- **Part A. Text**—Covers census data subjects; geographic considerations; reports, tapes, maps, and other products; services available to users; and many other topics.
- **Part B. Glossary**—Provides detailed definitions of population, housing, geographic, and technical terms.
- **Part C. Index to Summary Tape Files 1 to 4**—Provides an index, subject-by-subject, to the hundreds of tables in the four major summary tape series. Tells which tables have the desired data and also provides complete descriptions for all tables in these STF's.
- **Sources of Assistance**—Furnishes addresses and phone numbers of public and private sector organizations offering a variety of products and services, such as tape processing, area profiles, training, and reference assistance.
- **Updates**—Provide "Part A. Text" revisions on new developments relating to the 1980 census.



Other parts, including an index to reports, are planned for publication later.

Order from Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. Specify the stock numbers (S/N) given below and make check payable to Superintendent of Documents.

Part A. Text (S/N 003-024-03625-8)—\$5.50

Part B. Glossary; Sources of Assistance; and Updates
(Supplement 1) (S/N 003-024-05004-8)—\$6.00

Part C. Index to Summary Tape Files 1 to 4
(Supplement 2) (S/N 003-024-05771-9)—\$4.25

Superintendent of Documents
U.S. Government Printing Office
Washington, D.C. 20402

Official Business

Penalty for Private Use, \$300



POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE
COM-202

Special Fourth-Class
Rate—Book



79090
91

CB/Bureau of the Census Library



5 0673 01024311 4